

OPERATION INSTRUCTION

Medium-weight Materials Utility-decorative

stitch Zigzag Industrial Sewing Machine



Turn off the power switch when carrying out inspection, adjustment and maintenance

Cotents

Description

This machine is high quality single needle medium-weight utility-decorative stitch zigzag industrial sewing machine, which is using the cam Mechanism to control the stitch, with continuous double rotation and transverse position special rotary hook .which is with modern structure, stitch stability, durable and precision, integrated zigzag stitch, seaming and lock-stitch sewing and utility-decorative sewing. The usage of triangular cam mechanism guarantees smooth and stable zigzag stitch, the maximum sewing width can reach 12 mm. Through a unique switching mechanism, it can be switched from 2 to 3-step 4 point stitch, without changing the cam manually. The external cam can achieve utility-decorative effect, the machine is with inverted sewing function. The unique structure of puller for the machine guarantees stable cloth feeding. The machine is suitable for medium-weight materials, light materials, such as tulle, silk, denim, felt cloth, canvas, tarpaulin, leather, and artificial leather etc., they are suitable for sewing and utility-decorative such as shoes, hat, felt handicraft, gloves, bags, sofa products, sports products, sail etc.

Technical Information



Base plate	:476×178mm	
Working space to the right of the needle	: 265×128mm	
Needle throw and sewing speed		
I.5mm 2800 stitches per mi		
6.0mm 2800 stitches per mi		
0mm 2600 stitches per mi		
12.0mm	2200 stitches per minute	
Machines with cam- device for utility and	decorative stitches, stitches per minute for	
decorative -utility stitch 6.0mm 2,300 2,800 8.0mm 2,100 2,800		
12.0mm 1,800 2,600		
Machines with other extra attachments	such as:	
Puller	as basic model	
Stitch displacement	left-centre-right	
Stitch length forward and reverse:	5. 5mm	
Max. presser foot lift:	8. 5mm	
Needle system:	12. 0mm needle throw =134R,	
	No. 70-120	
Shuttle system:	continuous double rotation,	
	transverse position	
Thread tension:	double thread tension	
Raising presser foot:	knee lever with extra upper holding position.	

Important points to note:

• Oil machine thoroughly before using for first time.

• When doing so, strictly observe instructions.

• Check that the mains voltage corresponds to the voltage given on the motor , if the voltages are not the same, do not on any account operate the machine.

• Check the guards for finger, takeup lever and belt are all present.

• When the machine is running the hand wheel should turn anti-clockwise , if it dose not reverse the terminals on the motor.

• Use only recommended needle system.

• Clean machine regularly.

• Do not start machine until the fabric is in position under the presser foot.

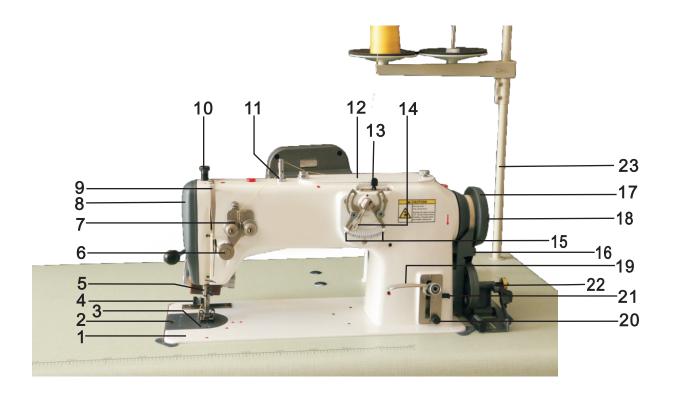
• When removing fabric always bring thread take-up lever at highest position.

• For the first 2 weeks, run machine at only 3/4 of its maximum speed.

•The presser foot can be raised either with the hand lever or with the knee lever.

 When making adjustments to the machine and when sewing is finished the machine and when sewing is finished the motor should be switched off or disconnected at the mains. When using a clutch motor , wait until it has stopped.

List of parts

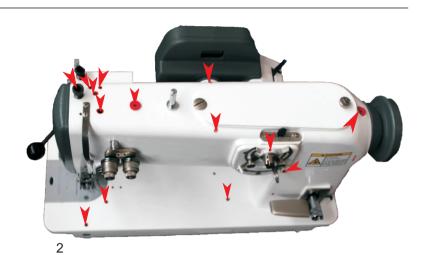


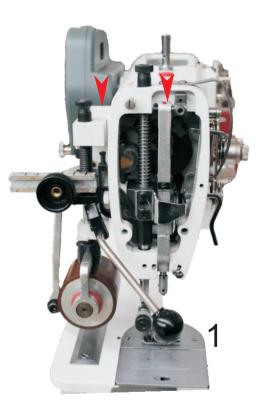
- 1 Base plate
- 2 Base plate slide
- 3 Needle plate
- 4 Presser foot screw and thread cutter
- 5 Needle holder
- 6 Thread regulator
- 7 Double thread tension
- 8 Front cover
- 9 Thread take-up lever
- 10 Regulating screw for presser foot
- pressure
- 11 Thread guide pin Embroidery
- machine: thread draw-off
- 12 Am cover
- 13 Lever for needle position
- 14 Lever for stitch width
- 15 Stops for limited stitch width
- 16 Belt guard 17 Hand wheel
- 18 Hub for synchroniser 19 Lever for stitch length
- 20 knob for fine setting of stitch length for
- sewing satin stitch
- 21 Buttonhole density stop
- 22 Bobbin winder
- 23 Thred stand

Cleaning and oiling

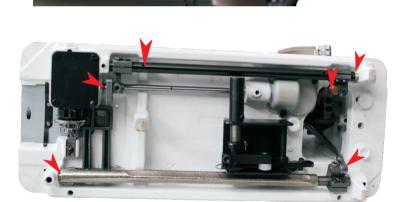
<u>Cleaning</u> Remove needle plate ③ from time to time and remove any pieces of thread . Oiling

Oil all points marked (with the exception of the shuttle system) with "Mobil Oil DTE Heavy Medium" or oil of comparable quality (Fig, 1-4).





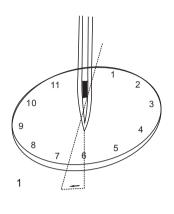
Lubrificating the hook Remove slide ②, turn hand wheel till the oiling point on the hook is visible. This point must be oiled daily with the oil "velocite 10" given with the machine or a comparable, very light oil (Fig.5). 3





Needle and thread

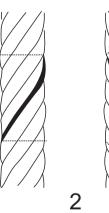
Bobbin and bobbin case



Inserting the needle

Insert needle as it will go, with long groove at front position shown in Fig. 1.

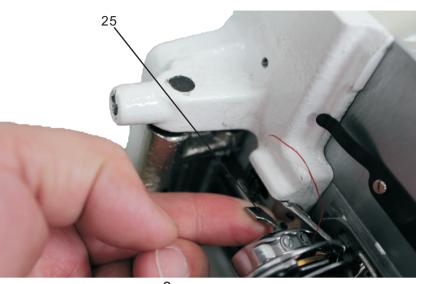
The correct choice of needle and thread Use only left-twisted thread (z-twist) whenever possible (Fig-2). The needle size is correct if the thread runs smoothly through the eye and the long groove of the needle.





left and right-twisted thread	
Z-twist	S-t
Left	rig





3

Removing the bobbin case

Lift the latch (25) (Fig.3) with the index finger of the left hand, grip with thumb and index finger and remove bobbin case.

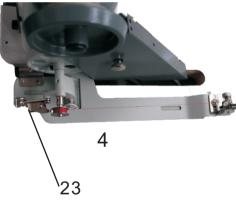
When the latch is released, the bobbin is free and can be taken out of the bobbin case.

Winding the lower thread Threading sequence see Fig.4. Press engaging lever 23. Bobbin is wound automatically during sewing.

Inserting the bobbin, threading, see Fig, 5. Hold bobbin case with the open latch (25), as when removing, with thumb and index finger of left hand so that the notch of the case is upwards. Insert in hook.



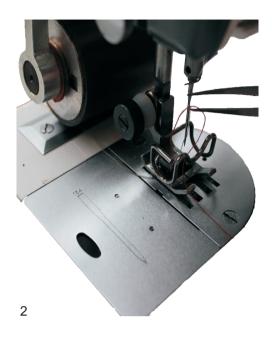




Threading upper thread



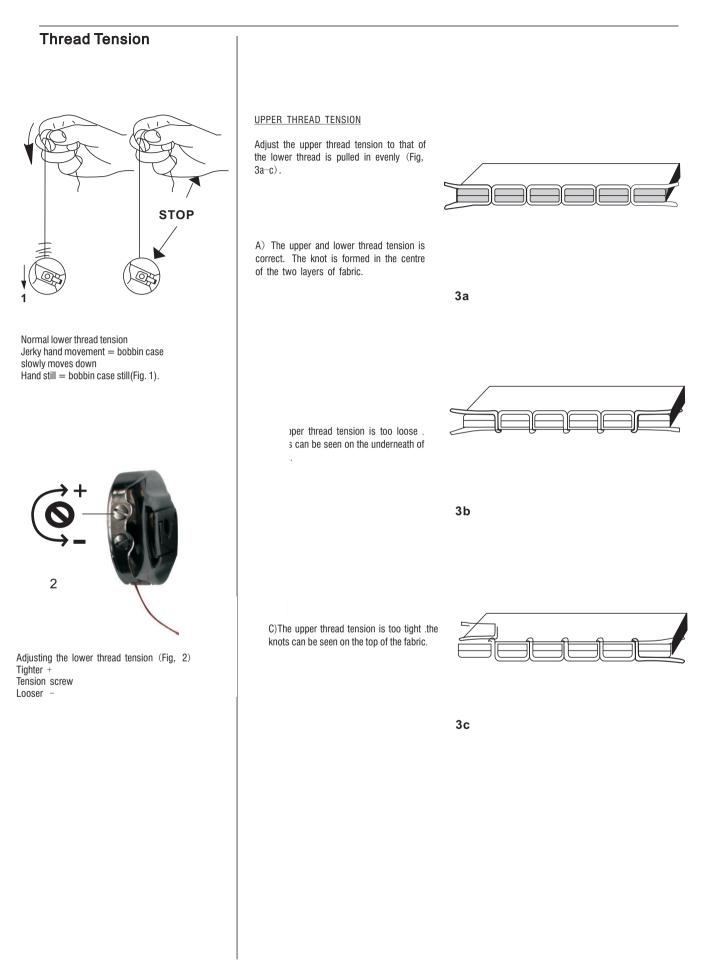
Bringing up lower thread

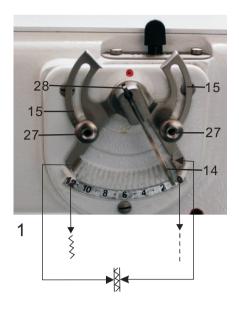


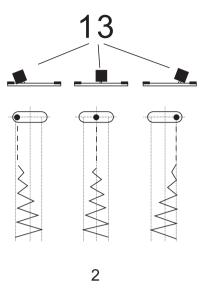
1

Sequence of threading(Fig.1).

Lower presser foot. Hold end of upper thread with the left hand and turn hand wheel once towards you until the thread take-up lever is approximately in the highest position. Pull lightly on end of upper thread until the lower thread comes up through the needle plate (Fig. 2). hold both ends lightly or lay them under the presser foot when staring sewing.



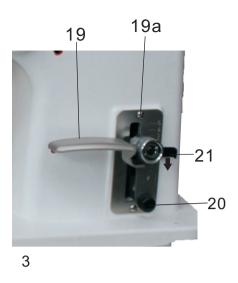




The lever (13) for the stitch position can be set from left right in seven positions. It too may be moved during sewing but again when the machine is at a standstill ,the needle must be out of the fabric (Fig. 2).

The stitch is limited to 8 mm on one side when the needle position is left or right .

Setting the stitch length



The stitch length is set forwards and reverse by turning the knob(19a)(Fig, 3).

Fine setting for satin stitch:

Press lever $\fbox{19}$ downwards. Slide stop to left

Fine setting with knob(20)

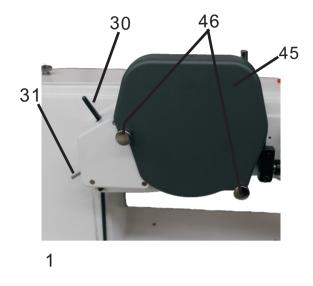
If the stop(21) is pushed right again, the machine

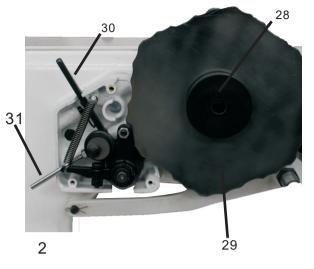
Lever (14) for full adjustment of stitch width.

 $\begin{array}{l} Stops \fbox{15} with knurled nuts \fbox{27} limit the stitch width . the stops can be by-passed by lifting the lever \fbox{4}(Fig 1). \end{array}$

The lever (1) may only be moved during sewing. When the machine is at a stand-still, the needle must be out of the fabric.

Cam device for utility and decorative stitches





Switching automatic cam device on and off

•Lever 30 out: switched off

 \bullet Lever 30 against the arm of the machine: switched on.

Changing the cams (Figs,1+2)

The cams are easy to change :

- Place lever (31) in up position.
- Loosen screws (46).
- Pull off protective cover (45) upwards
- Loosen nut (28) and remove cam (29).

• Position new cam the number must face the operator . Ensure that both pins on the flange engage into the cam holes .

• Tighten nut (28) and push lever (31) down.

Puller attachment

Lifting lever for roller and presser foot (2) (Fig. 1)

Position A:

Roller and presser foot are lowered, are lying on the fabric and feeding it. Both are lifted with the knee lever.

Position B:

The roller is raised . only the presser foot is lifted with the knee lever.

Adjusting the stitch length:

First set the desired stitch length with screw (33), then set the stitch length on the machine slightly smaller.

Check:

Adapt the stitch length on the machine so that the fabric is slightly stretched, between roller and presser foot.

Roller pressure regulating screw (35) (Fig. 2)

Roller pull:

If for special work you wish the roller to pull slightly to the left or right ,this can be done as follows : Place lever 32 on A (roller lies on fabric). Turn screw (36) slightly and turn roller a little.

Removing the roller:

Loosen screw (33) and pull out to the back, place lever (32) on B, loosen screw (37) with 2.5mm hex wrench and remove roller support downwards. The machine can not be used without the puller.

