



# 5463

## High-Speed Two-Thread Chainstitch Sewing Machine

U. S. Federal Stitch Type 401

### Instructions

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# Instructions for Operators

## 1. The Needle

Pfaff 5463 two-thread chainstitch sewing machines use System 4463 KK needles in sizes matching the material being sewn (available in sizes 70 to 120).

Insert the needle into the opening of the needle bar and push it up as far as it will go. Turn it so that its long groove faces toward you and tighten the needle set screw securely.

## 2. Threading the Needle

Upper threading is illustrated in Fig. 1.

Lead the thread from spool 1 up to the top thread guide of the thread stand and down to thread guide 2 on the machine arm. Pass it through the holes of this guide and of thread

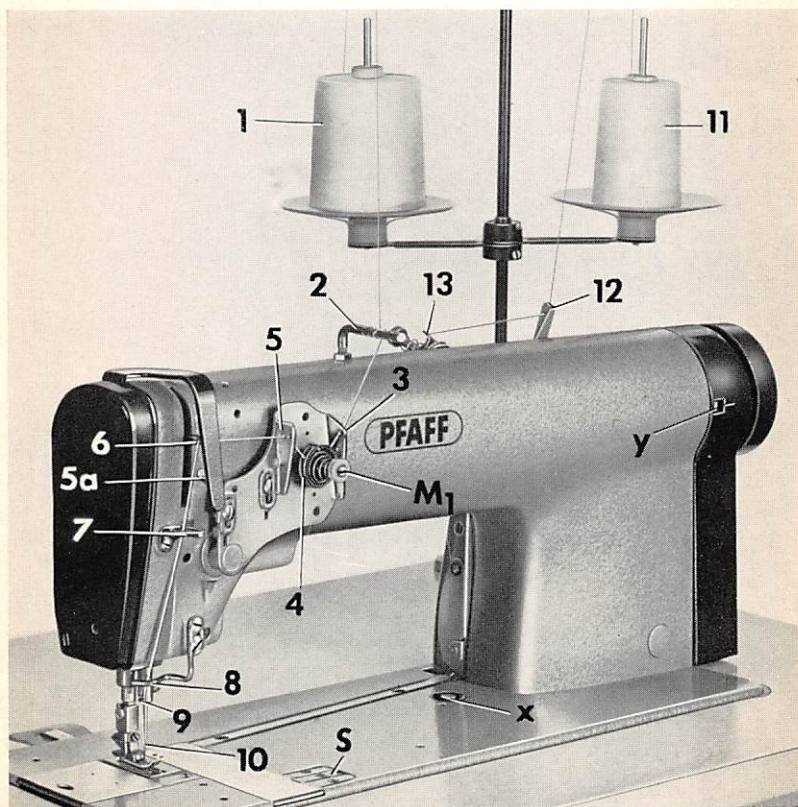


Fig. 1

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guide 3, clockwise around and between tension discs 4 and through the lower hole of adjustable thread guide 5. Passing above adjustable thread regulator 5a, the thread is then led from right to left through the hole in take-up lever 6 which moves up and down with the needle bar. Then lead the thread down through guides 7, 8 and 9, and pass it from front to back through the eye of needle 10.

### 3. Threading the Looper (Figs. 2 and 3)

Pass the thread from spool 11 on the thread stand up and through the top thread guide and down through holes 12 and 13, clockwise around and between tension discs 14, down and through hole 13 and thread guide 16 on the arm standard. Swing out thread guide z, insert the thread into the thread eyelet 17 near its lower end, and swing the guide back to its original position.

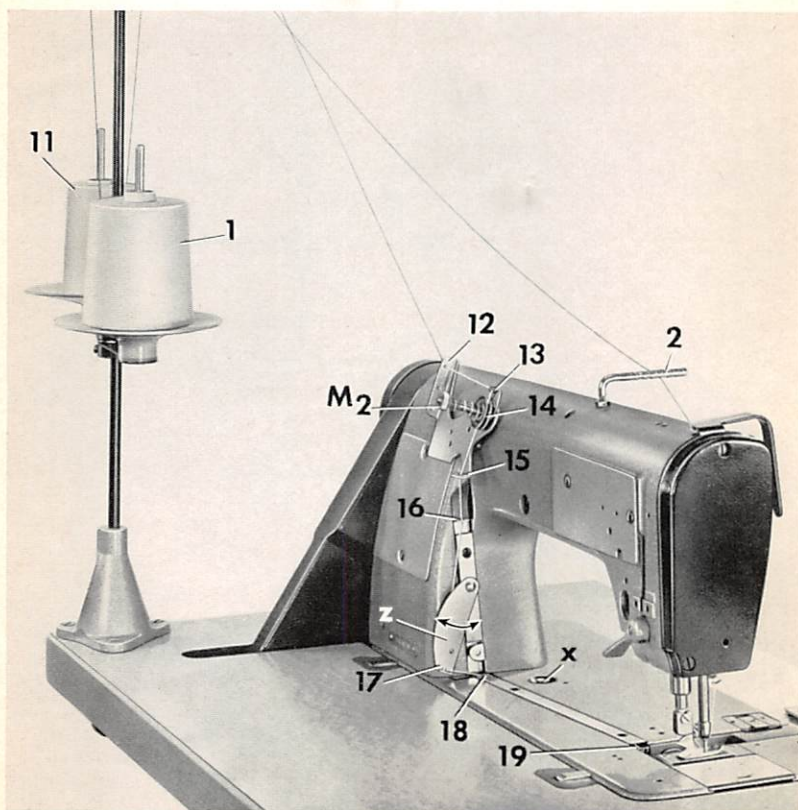


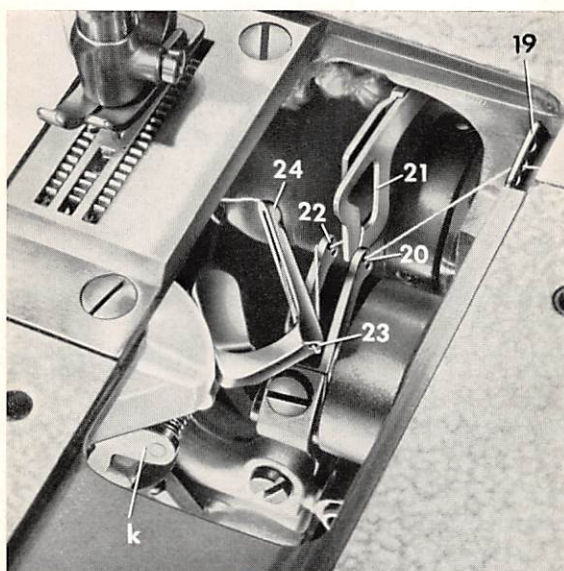
Fig. 2 Threading the looper

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Next, pull the thread into thread channel 18 in the bedplate, starting at the arm standard, and draw it through thread guide 18, hole 20 of the thread pull-off lever, opening 21, hole 22 of the thread pull-off lever, hole 23 at the heel of the looper and then from front to back through hole 24 at the looper point.

In order to lace the thread through opening 19 to 24, open the small latch s and remove the right-hand bed slide. Turn the balance wheel until openings 20 and 22 of the thread pull-off lever are in line with opening 21 between them so that the looper thread which emerges from opening 19 can be passed through holes 20, 21 and 22.

To thread the looper, turn the balance wheel until the looper is on the extreme right of its stroke. Swing out the looper by pressing against latch K with your finger, as illustrated in Fig. 3.



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Fig. 3 Threading the thread pull-off lever and the looper

#### 4. Regulating the Thread Tensions

The needle and looper thread tensions can be adapted to the thread and the material used by turning tension nuts M 1 and M 2 on the front and back of the machine arm, respectively, in or out, as may be required.

If, in exceptional cases, this adjustment should prove insufficient, have your maintenance man adjust the thread pull-off and the setting of stitches, as instructed in Sections 7 and 8 of the Service Manual.



## 5. Regulating the Stitch Length (Fig. 1)

The machine can be set for a maximum stitch length of  $5\frac{1}{2}$  per inch.

To regulate the stitch length, depress button x in the bedplate and turn the balance wheel until the button snaps in place.

The stitch length is indicated in window y in the belt guard.

To set the machine for the desired stitch length, turn the balance wheel back or forth, while button x is snapped in place, until the number indicating the desired stitch length (in millimeters) is in line with the mark in the window.

## 6. Sewing

Since this two-thread chainstitch seamer follows the same basic mechanical principle built into our high-speed lockstitch seamers, its operation is just as simple as that of an ordinary lockstitch sewing machine, provided the proper needle is used and the tension has been regulated correctly.

A considerable amount of time is saved on many sewing jobs and a higher output of work obtained because there is no need to change the bobbin and the individual pieces can be sewn continuously at high speed without any interruption.

## 7. Machine Care

Since the Pfaff 5463 incorporates maintenance-free anti-friction bearings, its care is limited to a few manipulations.

Once a week, remove the face cover and put a few drops of oil into the oil dents on the needle bar bearings.

All the other bearings are grease-packed and must not be oiled because the oil would dissolve the grease.

For the same reason, no kerosene must be used in cleaning the machine. If kerosene enters such non-sealed anti-friction bearings, it will dissolve the grease.

The only implements that should be used to clean the machine are a brush and a duster. It is important that the lint which has accumulated in the machine be removed regularly, particularly when sewing fluffy or heavily dressed materials because the particles of dressing are likely to absorb the grease in the bearings.

To clean the machine, take out the knee lever and tilt the sewing head back. This makes the looper easy of access. From time to time, strip the needle plate and remove the lint which has accumulated between the tooth rows of the feed dog with a pointed wooden instrument.

