

1525 1525-S

Adjustment Manual

1525-G 1526

This Adjustment Manual is valid for machines from the following serial numbers onwards:

2722168 ----

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Adjustment



13

Please observe all notes from **Chapter 1 Safety** of the instruction manual! In particular care must be taken to see that all protective devices are refitted properly after adjustment, see **Chapter 1.06 Danger warnings** of the instruction manual!



Unless stated otherwise, during all adjustment work the machine must be disconnected from the electric and pneumatic power supply! Danger of injury if the machine is started accidentally!

The illustrations in this chapter show the single-needle machine,



PFAFF 1525. For the two-needle machine, **PFAFF 1526**, various adjustments have to be made twice, i.e. on the left- and right-hand sewing hooks. This is pointed out in the chapters concerned, and some of the illustrations have to be regarded in reverse.

13.01 Notes on adjustment

All following adjustments are based on a fully assembled machine and may only be carried out by expert staff trained for this purpose.

Machine covers, which have to be removed and replaced to carry out checks and adjustments, are not mentioned in the text.

The order of the following chapters corresponds to the most logical work sequence for machines which have to be completely adjusted. If only specific individual work steps are carried out, both the preceding and following chapters must be observed.

Screws, nuts indicated in brackets () are fastenings for machine parts, which must be loosened before adjustment and tightened again afterwards.

13.02 Tools, gauges and other equipment

- Set of screwdrivers with 2 to 10 mm blade widths
- Set of open-ended spanners/wrenches, 7 to 14 mm across flats
- Set of allen keys from 2 to 6 mm
- Needle rise gauge (Part No. 61-111 600-01)
- Screw clamp (Part No. 61-111 600-35/001)
- 7.0 mm gauge for presser-foot height (part No. 61-111 633-61)
- 5.0 mm gauge for top feed stroke (part No. 61-111 633-60)
- Metal rule (part No. 08-880 218-00)

13.03 Abbreviations

t.d.c. = top dead centre b.d.c. = bottom dead centre

13.04 Explanation of the symbols

In this adjustment manual, symbols emphasize operations to be carried out or important information. The symbols used have the following meaning:



Note, information



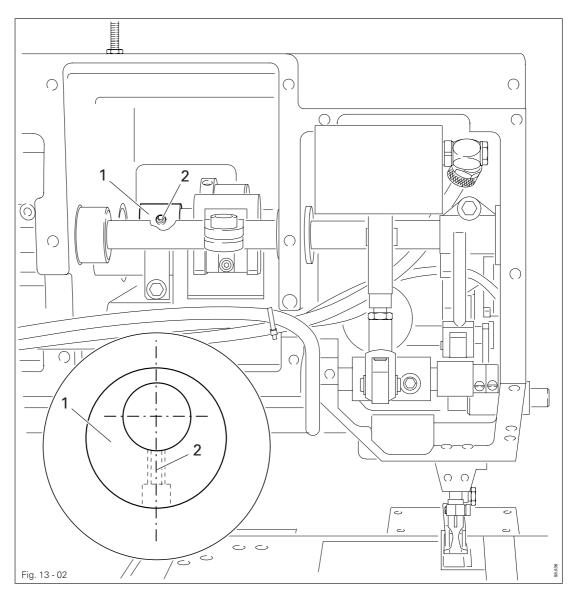
Service, repair, adjustment, maintenance (work to be carried out by qualified staff only)

13.05 Adjusting the basic machine

13.05.01 Balance weight

Requirement

At needle bar t.d.c. the eccentric lobe of balance weight **1** must face downwards.



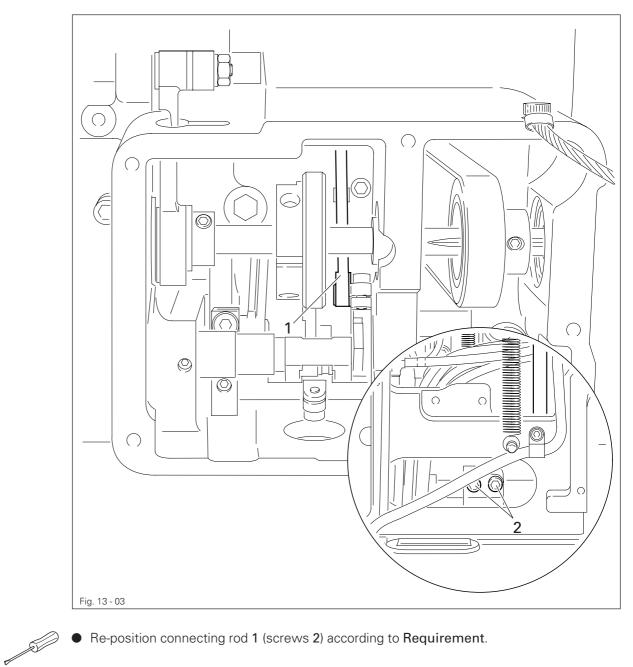


• Adjust balance weight 1 (screw 2) according to **Requirement**.

Neutral position of unison feed 13.05.02

Requirement

At stitch length setting "0" neither the top- and bottom feed dogs nor the needle bar must make any feeding movement.

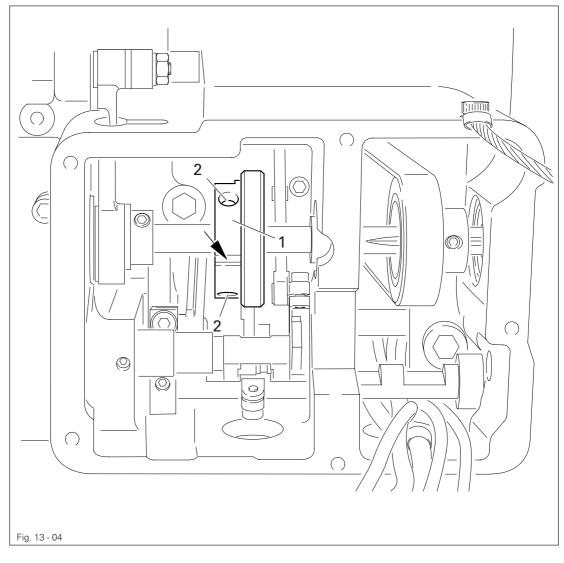




13.05.03 Feeding motion of the unison feed

Requirement

At the longest stitch-length setting and at needle bar b.d.c. neither the top- and bottom feed dogs nor the needle bar must make any feeding motion when the reverse-feed lever is pressed



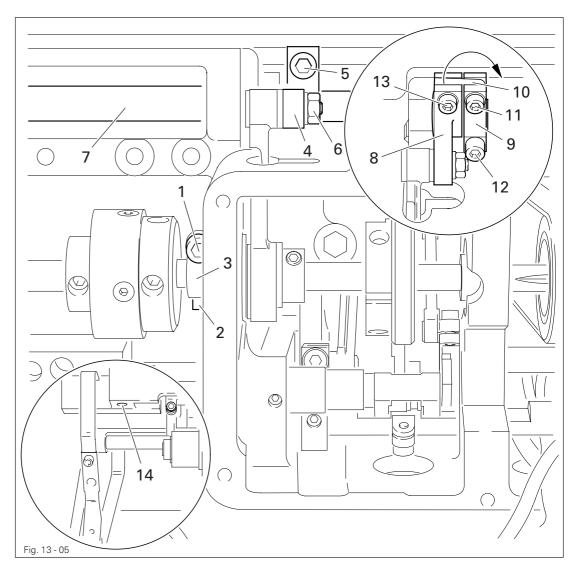


• Adjust eccentric 1 (screws 2) according to **Requirement**. Make sure that cut-out (see arrow) is visible.

13.05.04 Lifting motion of the bottom feed dog

Requirement

With the needle bar at b.d.c. the feed dog must be at t.d.c.





Loosen screw 1 and undo screw 2 a half turn.

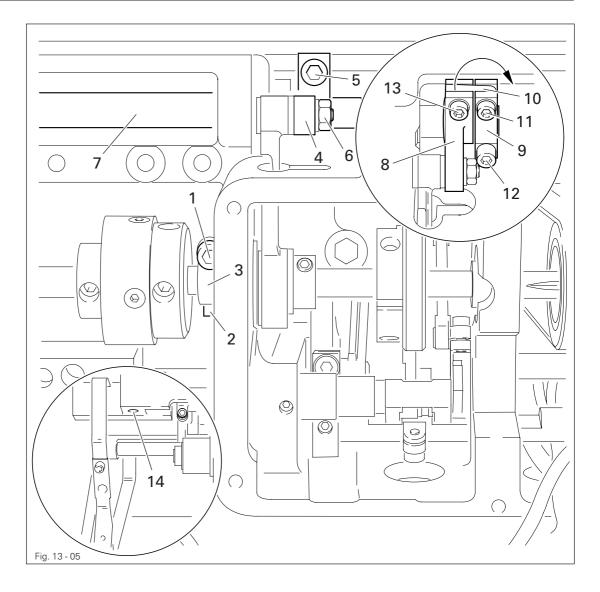
• Turn clamp collar **3** according to **Requirement** and first tighten screw **2**, then tighten screw **1**.



With kit No. 91-266 375-90 it is possible to disengage the lifting motion of the feed dog.

Fitting and adjusting the parts of the kit

- Remove link 4 (screw 5, nut 6).
- Loosen the parts secured to shaft 7 and push shaft 7 to the left a little.
- Place the pre-assembled parts 8 and 9 onto shaft 7.



Engaging the lifting motion

• The lifting motion is engaged when parts 8 to 13 are fitted as shown in the upper magnified view.

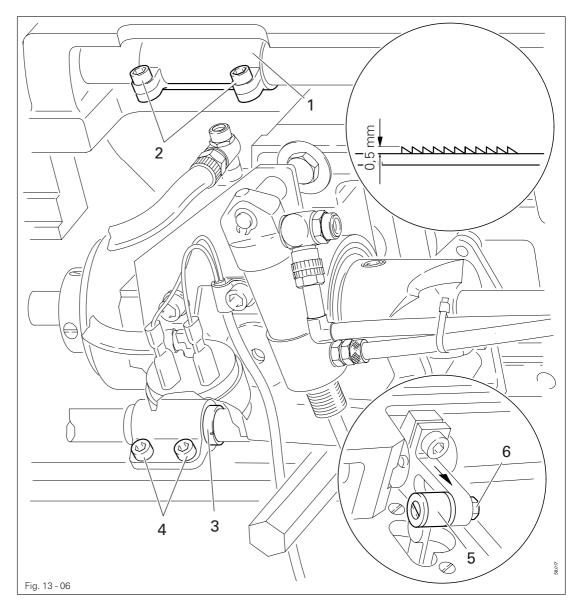
Disengaging the lifting motion

- Take out screw 13 and swing part 10 to the right (screw 11).
- Set the feed-dog teeth flush with the upper surface of the needle plate and fix shaft 7 in this position by inserting screw 13 into hole 14.
- When the lifting motion is engaged again, there is no need to adjust the bottom feed dog height.

13.05.05 Bottom feed-dog height

Requirement

- 1. When the needle bar is at b.d.c., the stitch length is set at "0" and crank **5** is at the bottom of the slotted lever (see arrow), the bottom feed dog must protrude from the top surface of the needle plate by **0.5 mm**.
- 2. The bottom feed dog must be centred in the needle-plate slot.





Turn lifting crank 1 (screws 2) and eccentric sleeve 3 (screws 4) according to Requirement 1, and set feed dog in centre of needle-plate slot as shown in Requirement 2.

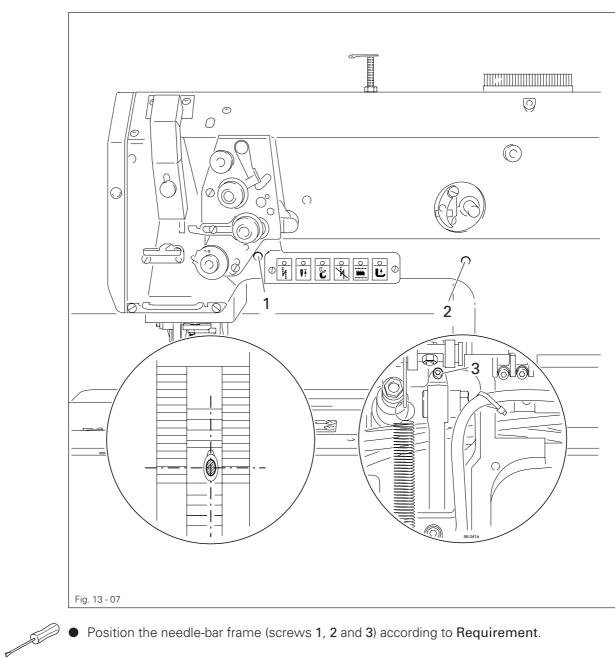


The feed-dog height can also be increased by shifting crank **5** (nut **6**) upwards as required.

Needle in needle-hole centre 13.05.06

Requirement

At stitch length "0" the needle must enter exactly in the centre of the needle hole.

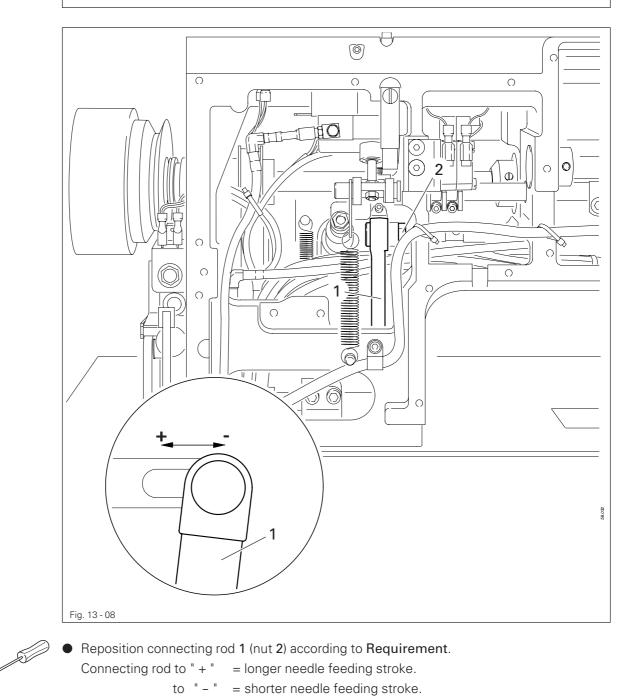


• Position the needle-bar frame (screws 1, 2 and 3) according to Requirement.

13.05.07 Feeding-stroke difference

Requirement

At the longest stitch-length setting and when the balance wheel is turned, the feeding strokes of the needle bar and the bottom feed dog must be the same.

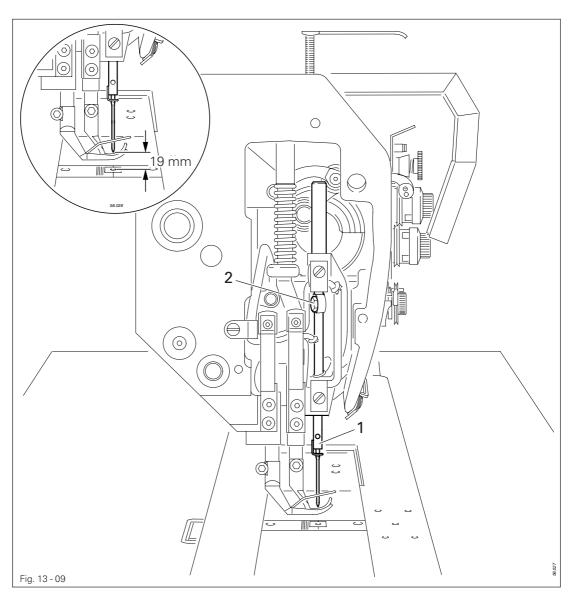


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13.05.08 Needle height (preliminary adjustment)

Requirement

At needle-bar t.d.c. the clearance between needle point and needle plate must be approx. **19 mm**.





• Re-position needle bar 1 (screw 2), without turning it, according to **Requirement**.

13.05.09 Needle rise, hook clearance, needle height (final adjustm.) and needle guard (On the **PFAFF 1526** carry out this adjustment on both hooks)

Requirement

When the stitch length is set at "4" and with the needle rise position set (see table):

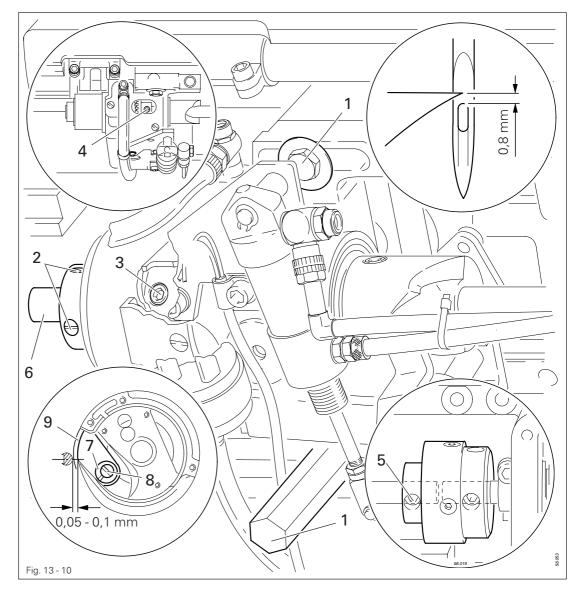
- 1. the hook point must be at "needle centre" with a hook-to-needle clearance of 0.05 to 0.1 mm;
- 2. the top of the needle eye must be 0.8 mm below the hook point;
- 3. and needle guard 9 must touch the needle just lightly.



Needle rise position:

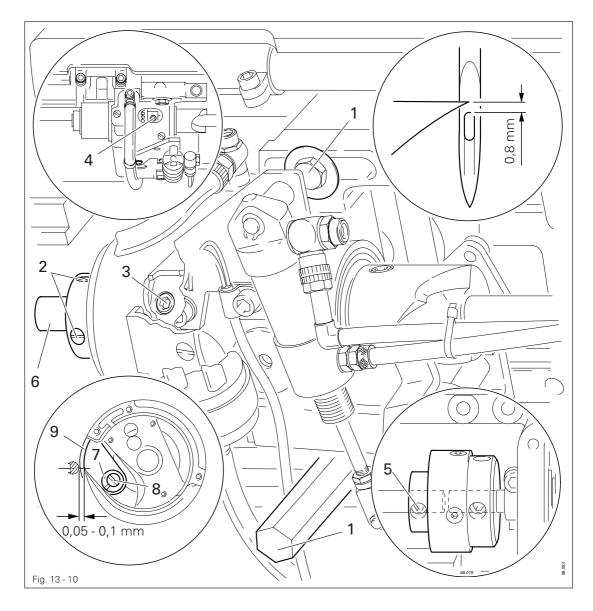
Model B + C = 2.0 mm

Model C/D + D = 2.4 mm





- Set stitch length "4" and loosen screws 1, 2, 3 and 4.
- Set needle bar at 2 mm past b.d.c. and set hook point at "needle centre."
- Set hook clearance according to **Requirement 1** and tighten screws 1.
- Loosen screws 5 and turn shaft 6 so that the shafts in the coupling do not touch each other.



- Tighten screws 2 and 5.
- Making sure there is a slight play in the gear, move the collar up and tighten screws 3.
- Set needle bar at 2 mm past b.d.c. (use screw clamp and needle-rise gauge).
- Set hook point at "needle centre" and tighten screws 4.
- If necessary, readjust needle bar according to **Requirement 2**.
- Remove hook base and turn eccentric 7 (screw 8) according to Requirement 3.

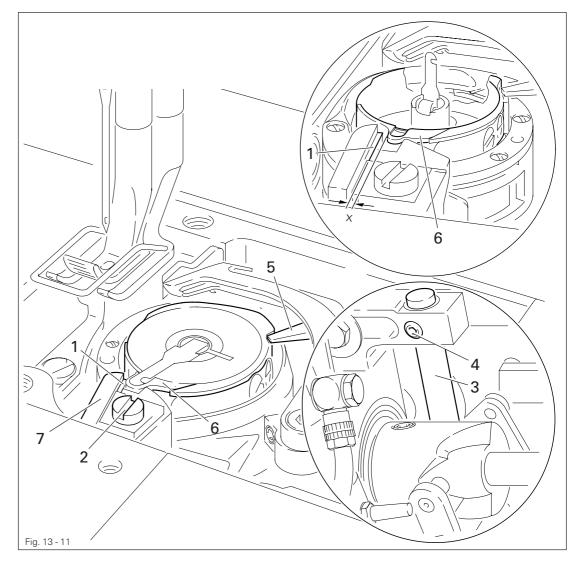


On the PFAFF 1526, also loosen screws 1, 2, 3 and 4 on the second hook and carry out the adjustments as described.

13.05.10Bobbin-case opener stroke
(On the PFAFF 1526 carry out this adjustment on both hooks)

Requirement

- 1. The front edge of retaining spring 1 and stop 7 must must be flush.
- 2. In the rearmost position of the bobbin-case opener, hook base 6 and retaining spring 1 must stand apart by **thread thickness X**.

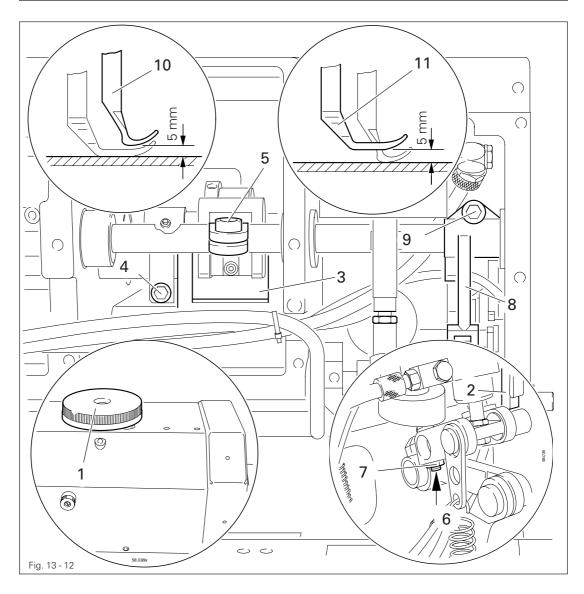


Position retaining spring 1 (screw 2) according to Requirement 1.
Re-position shaft 3 (screw 4) according to Requirement 2.

13.05.11 Top feed stroke

Requirement

- 1. With knob 1 set at position "5", the top feed dog 10 and presser foot 11 should each rise by 5.0 mm.
- 2. The standard stroke should be limited to 5 mm.

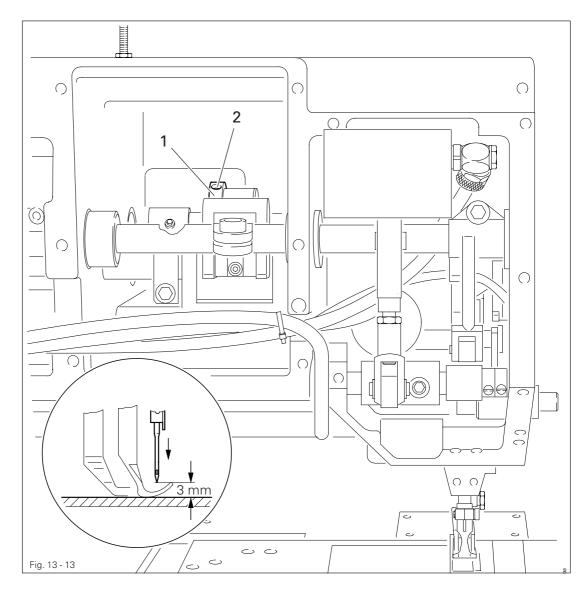


- A
- Remove the bottom feed dog and set knob 1 at "0".
- Unscrew the needle plate. Place the metal gauge over the opening of the needle plate cutout so that both sewing feet can rest on the metal gauge.
- Screw in stop screw 2 as far as possible.
- For pre-adjustment adjust crank **3** (screw **4**) so that crank **5** does not move when the balance wheel is turned.
- Set knob 1 at "5".
- For-adjustment turn ball stud 6 (locknut 7) according to requirement 1.
- Adjust crank 8 (screw 9) so that the top feed dog 10 and presser foot 11 are raised equally from the needle plate.
- Check requirement 1 and readjust the ball stud 6 (nut 7) if necessary.
- Turn stop screw **2** according to **requirement 2**.

13.05.12 Top-feed lifting motion

Requirement

When a lifting-presser stroke of **3 mm** is set and the descending needle is **3 mm** above the needle plate, the vibrating presser must just reach the needle plate.



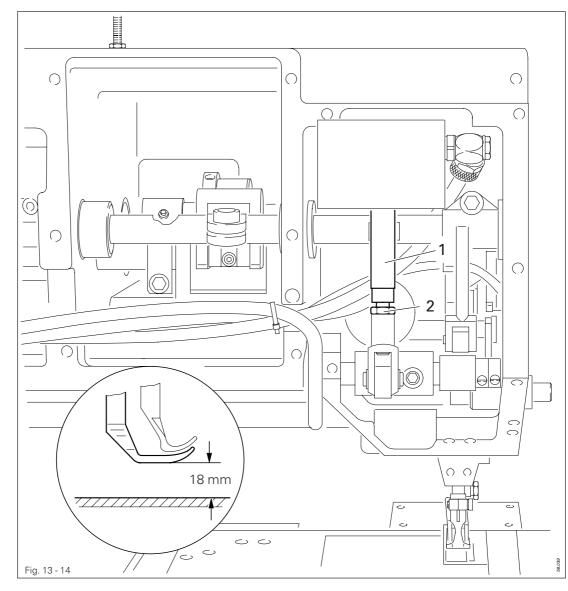


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13.05.13 Clearance between lifting presser and needle plate

Requirement

With the lifting presser raised there must be a clearance of approx. **18 mm** between lifting presser and needle plate.



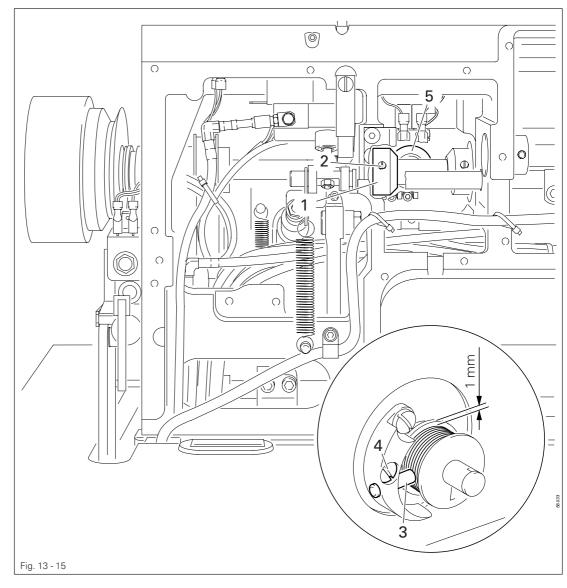


- Raise the lifting presser and lock it with fixing key 1.
- Turn plunger 1 (nut 2) according to Requirement.

13.05.14 Bobbin winder

Requirement

- 1. When the bobbin winder is engaged, the winding spindle must be driven reliably; when it is disengaged, friction wheel **5** must not rest on driving wheel **1**.
- 2. The bobbin winder must wind evenly and switch itself off when the filled thread is about **1 mm** from the edge of the bobbin.





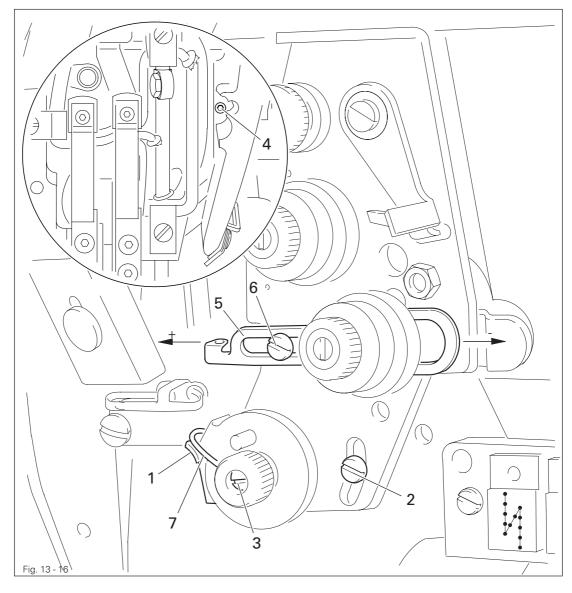
Position drive wheel 1 (screw 2) according to Requirement 1.

• Position adjusting pin **3** (screw **4**) according to **Requirement 2**.

13.05.15 Thread check spring and regulator on the PFAFF 1525

Requirement

- 1. The movement of thread check spring **7** must be completed when the needle point enters the material.
- 2. When the thread loop is opened to its largest amount while being passed around the sewing hook, thread check spring 7 must rise slightly from rest 1.





- Position rest 1 (screw 2) according to **Requirement 1**.
- To adjust the spring tension, turn screw 3 (screw 4).
- Position thread regulator 5 (screw 6) according to Requirement 2.



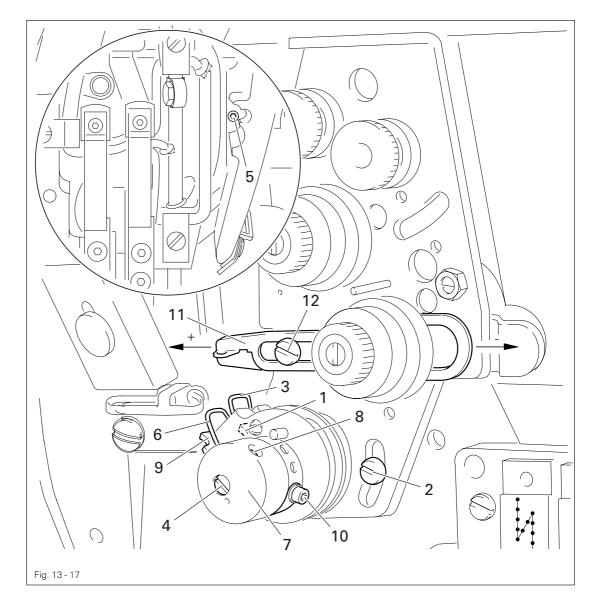
For technical sewing reasons it may be necessary to deviate from the indicated spring stroke or spring tension.

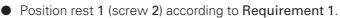
Move thread regulator 5 (screw 6) to " + " (= more thread) or " - " (= less thread).

13.05.16 Thread check springs and regulators on the PFAFF 1526

Requirement

- 1. The movement of thread regulators **3** and **6** must be completed when the needle enters the material.
- 2. When the thread loop is opened to its largest amount while being passed around the sewing hook, thread check springs **3** and **6** must rise slightly from rests **1** and **9**.





- To adjust the tension of thread check spring 3, turn screw 4 (screw 5).
- To adjust the tension of thread check spring 6, turn sleeve 7 (screw 8).
- Position rest 9 (screw 10) according to **Requirement 1**. (If the adjustment range is too small, rest 9 can be screwed into another hole.)
- Position thread regulator 11 (screw 12) according to **Requirement 2**.



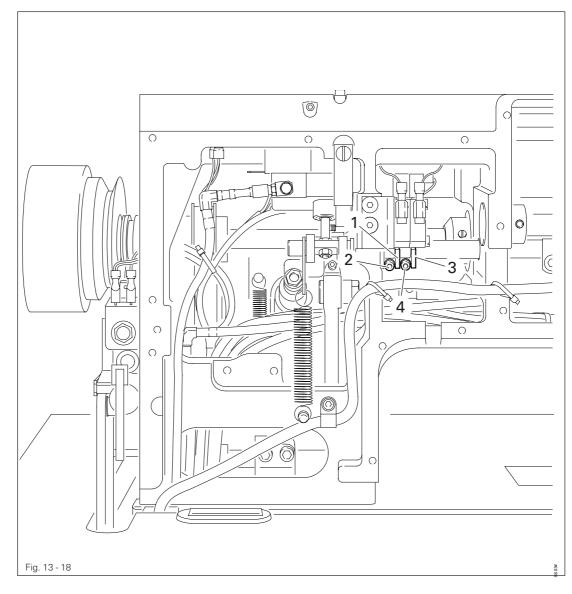
For technical sewing reasons it may be necessary to deviate from the indicated spring stroke or spring tension.

Move thread regulator 11 (screw 12) to " + " (= more thread) or " - " (= less thread).

13.05.17 Speed reduction when the stroke is increased

Requirement

- 1. With a lift of 2.5 mm the speed should be reduced to 2800 spm, or to 2700 spm on model "D"
- 2. With a 4.5 mm stroke the speed should be reduced to 2200 spm.





- Adjust trip 1 (screw 2) according to requirement 1.
- Adjust trip **3** (screw **4**) according to **requirement 2**.

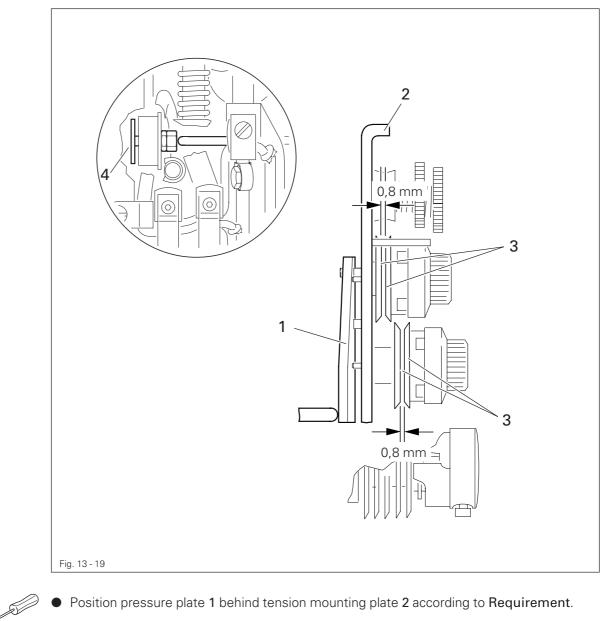


The switch position of both switches can be controlled on the operating panel (see Hardware test in the motor instruction manual).

Needle-thread tension release 13.05.18

Requirement

- 1. When stop 4 is actuated by hand there must be a clearance of at least 0.8 mm between tension discs 3.
- 2. When stop 4 is in its resting position the tension must be engaged.

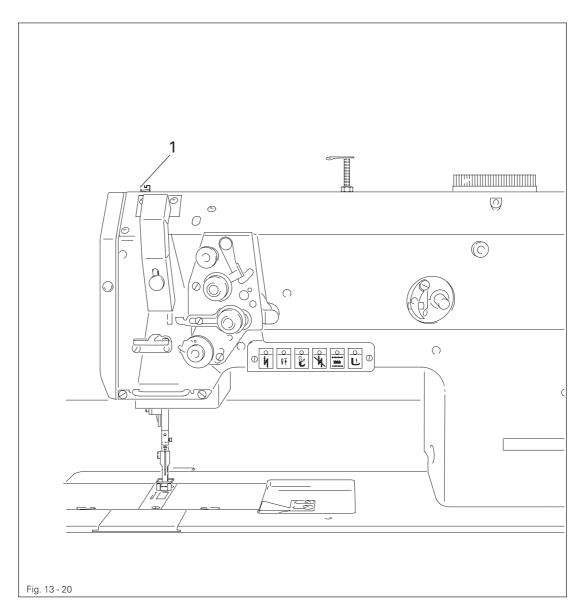


• Position pressure plate 1 behind tension mounting plate 2 according to **Requirement**.

13.05.19 Presser foot pressure

Requirement

The material must be reliably fed, even at the highest sewing speed.



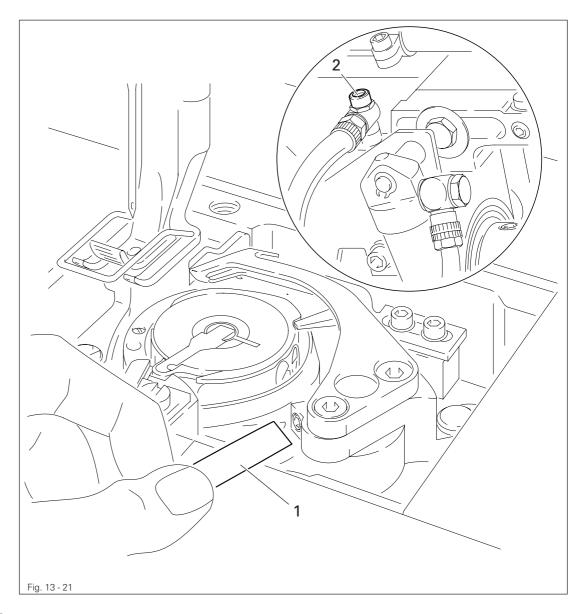


• Adjust screw 1 according to **Requirement**.

13.05.20 Lubrication

Requirement

After a running time of ten seconds a thin film of oil must appear on a paper strip 1 held at the side of the sewing hook.



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• Check that machine has been filled with oil and that oil lines are free of air.

Run the machine for 2 to 3 mins.



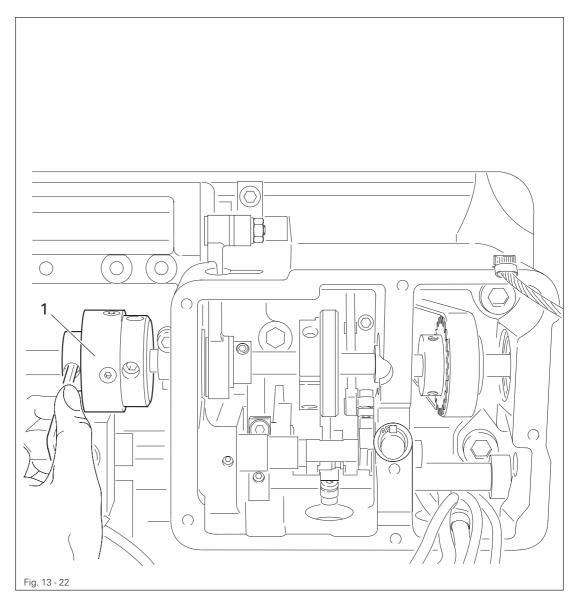
Do not put your hands into the sewing area while the machine is running! Danger of injury by moving parts!

- With the machine running, hold a paper strip **1** at the hook and check according to **Requirement**.
- If necessary, regulate oil on screw 2.

13.05.21 Re-engaging the slip-clutch



Clutch 1 is adjusted at the works. In the case of a thread jamming, clutch 1 will disengage, in order to avoid damage to the hooks. The following describes how to re-engage clutch 1.





• Remedy jammed thread fault.

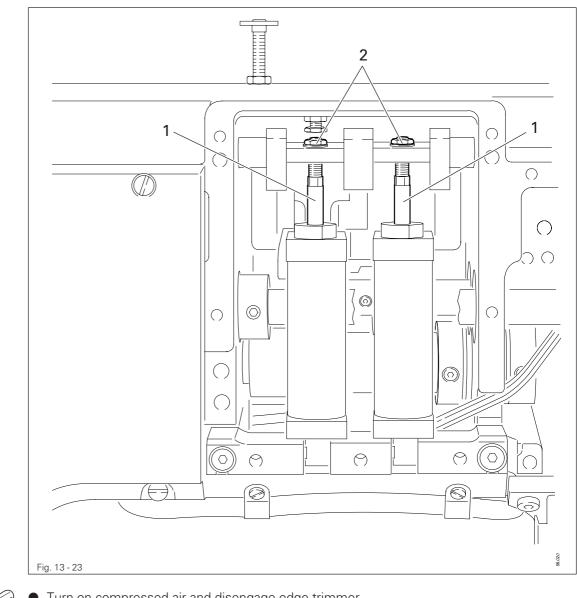
• Hold clutch 1 firmly, as shown in Fig. 13-22, and turn the balance wheel until clutch 1 re-engages.

13.06 Adjusting the edge trimmer -731/02

13.06.01 Neutral position of knife

Requirement

When the edge trimmer is disengaged, the knife must not move when the balance wheel is turned.





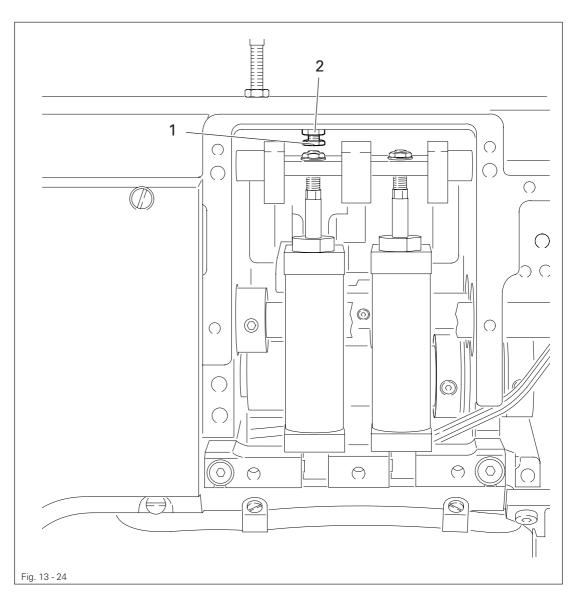
• Turn on compressed air and disengage edge trimmer.

• Turn cylinder plunger 1 (nut 2) according to **Requirement**.

13.06.02 Knife stroke

Requirement

The maximum knife stroke must be 9 mm





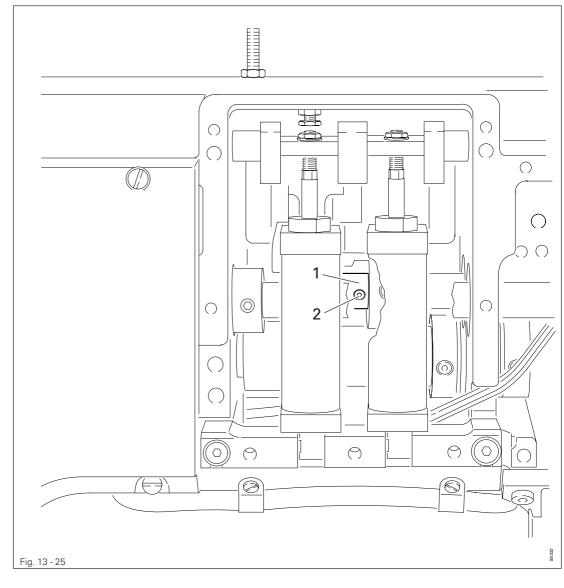
- Engage edge trimmer.
- Adjust screw 1 (nut 2) according to Requirement.

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13.06.03 Cutting stroke

Requirement

With the edge trimmer engaged and the needle bar at b.d.c. the knife must be at t.d.c.





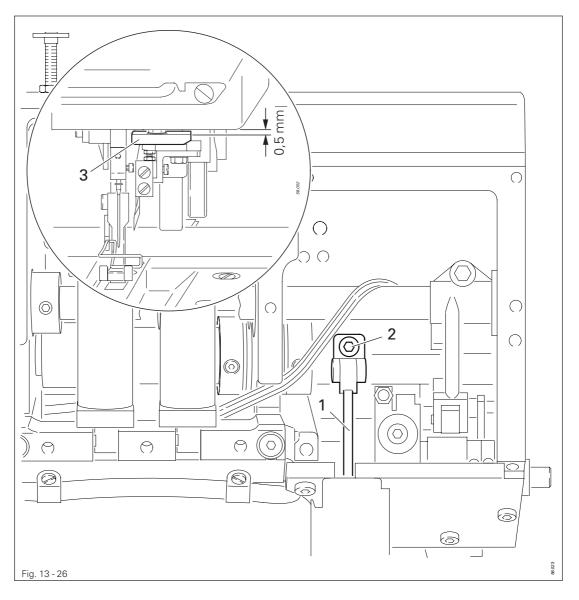
Engage edge trimmer and set needle bar at b.d.c.

• Turn eccentric 1 (two srews 2) according to Requirement.

13.06.04 Actuating lever

Requirement

With the edge trimmer disengaged there must be a clearance of **0.5 mm** between base **3** and the housing.

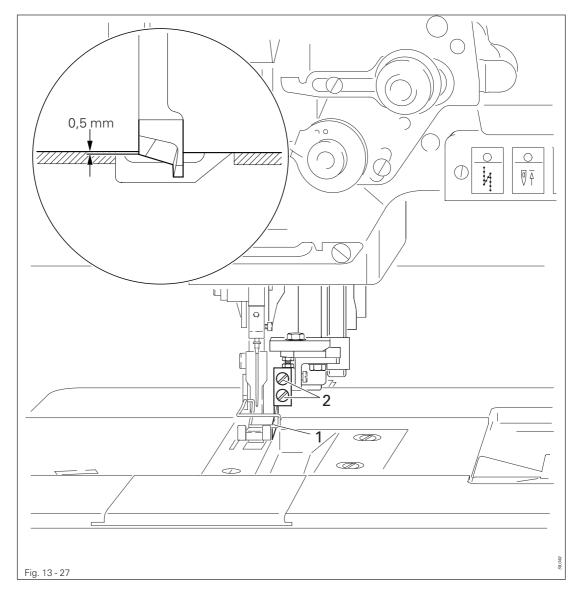


• Re-position lever 1 (screw 2) according to Requirement.

13.06.05 Knife height

Requirement

When the knife is at b.d.c. the front of the knife cutting edge must be about **0.5 mm** under the top edge of the stationary knife.



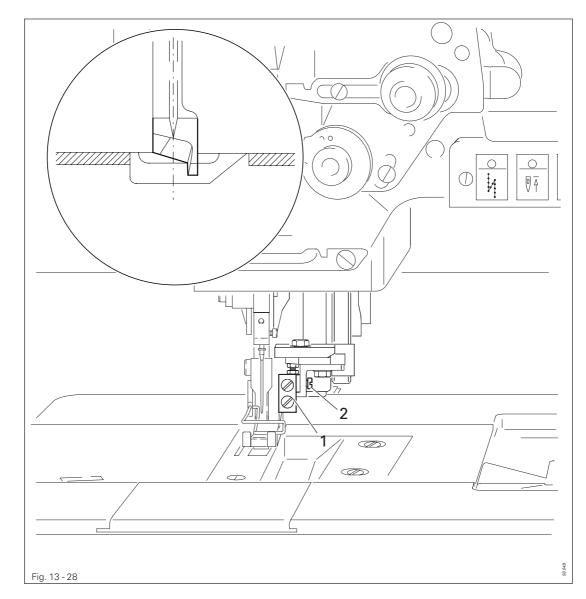


Engage edge trimmer and set knife at its lowest position.
Re-position knife 1 (screws 2) according to Requirement.

13.06.06 Knife position in sewing direction

Requirement

With the needle bar at b.d.c. the middle of the knife must be at "needle centre."





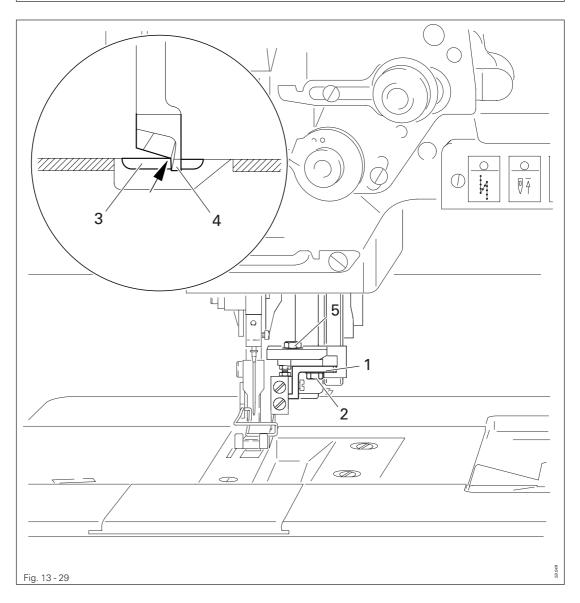
• Re-position knife mounting 1 (screw 2) according to **Requirement**.

13 - 30

13.06.07 Knife position crosswise to sewing direction

Requirement

- 1. The knife must rest with light pressure against stationary knife 3.
- 2. The knife must be at a slight angle to stationary knife 3 (shear action of approx. 2°).



• Adjust knife mounting 1 (screw 2) acording to **Requirement 2**.

• Engage edge trimmer.

- Turn balance wheel to set rear of knife cutting edge in line with top edge of stationary knife 3 (see arrow).
- Set knife spur 4 (screw 5) against stationary knife 3 without pressure.



During the cutting action the slight angular off-set of the knife to stationary knife **3** causes a slight pressure (**Requirement 1**).

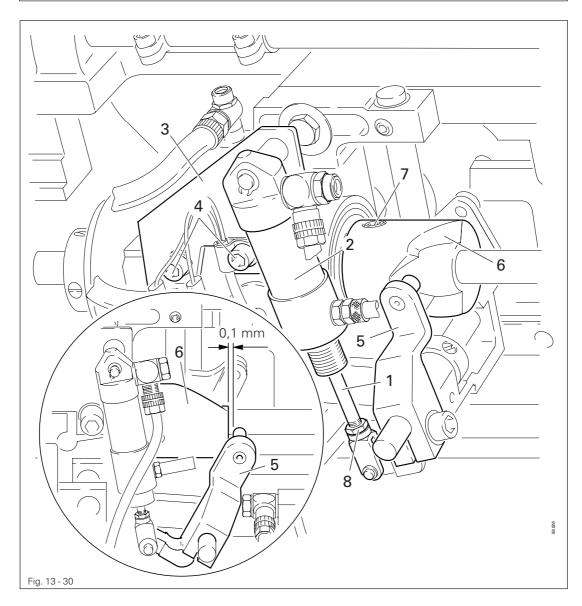
- Set knife at its lowest position; there must then be a small clearance bewteen back edge of knife and stationary knife **3** (shear action).
- Repeat adjustment if necessary.

13.07 Adjusting the thread trimmer 900/81 and -900/86

13.07.01 Resting position of roller lever/radial position of control cam

Requirement

- 1. When cylinder plunger **1** is retracted there must be a clearance of **0.1 mm** between outer edge of control cam **6** and the roller of lever **5**.
- 2. When cylinder plunger 1 is retracted and the take-up lever is at t.d.c., control cam 6 must just move roller lever 5 to its resting position



- Fully retract plunger 1 into cylinder 2.
 - Re-position cylinder mounting **3** (screws **4**) according to **Requirement 1**.
 - Push roller lever 5 into control cam 6.
 - Set take-up lever at t.d.c. and turn control 6 (screws 7) according to **Requirement 2**.

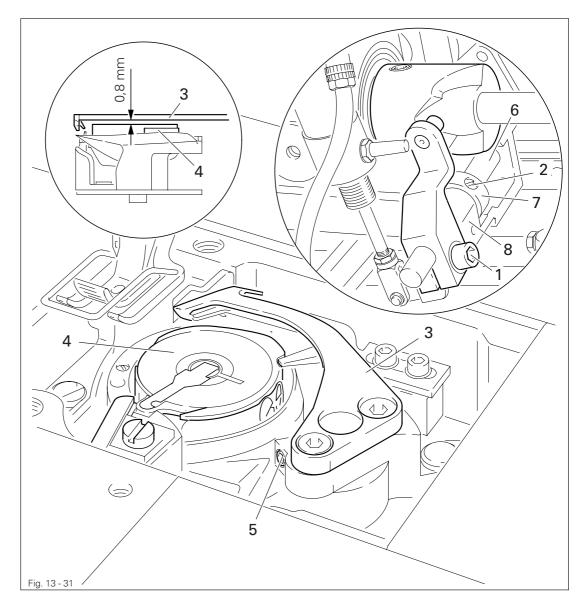


On cylinder plunger 1, about 1 mm of thread must protrude above locknut 8.

13.07.02 Thread-catcher height

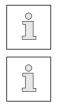
Requirement

The lower edge of thread catcher 3 must clear bobbin 4 case by about 0.8 mm.



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- Loosen screws 1 and 2.
- Set thread catcher **3** above bobbin case **4**.
- Re-position thread catcher **3** (screw **5**) according to **Requirement**.
- Balance out the vertical play of shaft 6, set fixing collar 7 against bearing housing 8 and tighten screw 2.

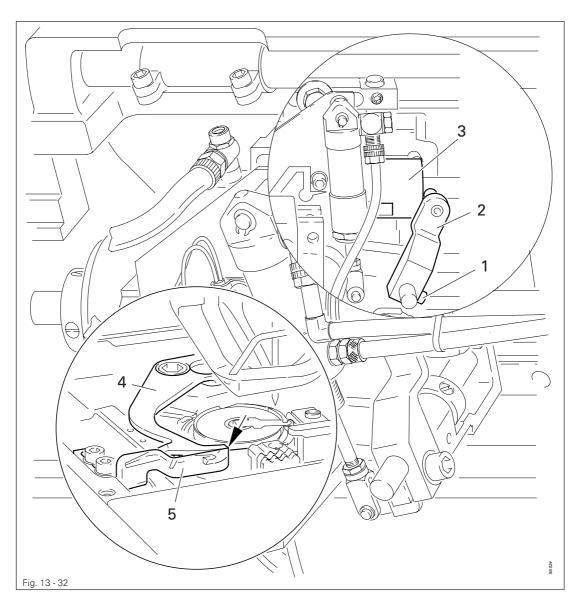


For further adjustments leave screw 1 untightened.

13.07.03 Thread catcher position

Requirement

When the thread catcher is in its resting position, the edges of thread catcher **4** and knife **5** must be flush (see arrow).



- Set needle bar at b.d.c. and push roller lever 2 against control cam 3.
- Turn thread catcher 4 according to **Requirement**.
- Tighten screw 1.

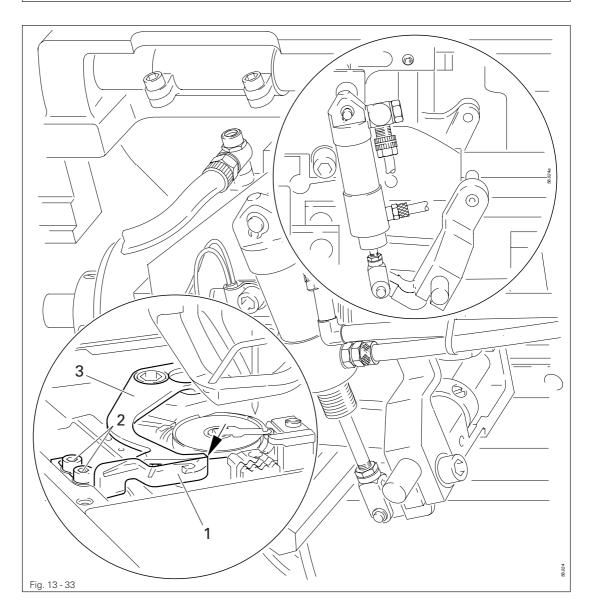


<u>F</u>

13.07.04 Knife height

Requirement

With the thread trimmer in its resting position the edges of thread catcher **3** and knife **1** must be flush (see arrow).





Check knife height according to Requirement.



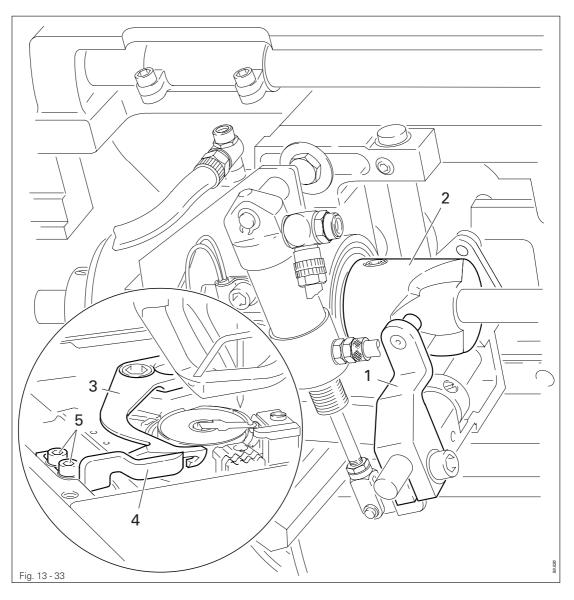
To adapt the height of knife 1, remove it (screws 2) and fit shims (part No. 91-141 402-05) according to Requirement .



13.07.05 Knife pressure

Requirement

When the front edge of thread catcher **3** has passed the cutting edge by half, knife **4** must rest with light pressure on the edge of the catcher.



- Set take-up lever at b.d.c. and push roller lever 1 into control cam 2.
- Turn balance wheel until front edge of catcher **3** has passed cutting edge of knife **4** by half.
- Re-position knife 4 (screws 5) according to Requirement.



-S-

After adjustment, check again according to **Chapter 13.07.03 Thread catcher position**.

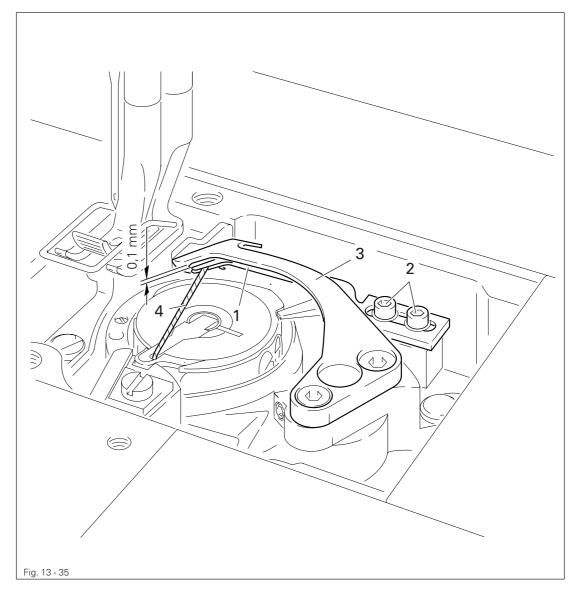


13.07.06 Bobbin-thread retaining spring

Requirement

Retaining spring 1 must

- 1. not be deflected during the thread catcher movement,
- 2. reliably retain bobbin thread 4 after cutting, and
- 3. not hinder removal and replacment of the bobbin case.





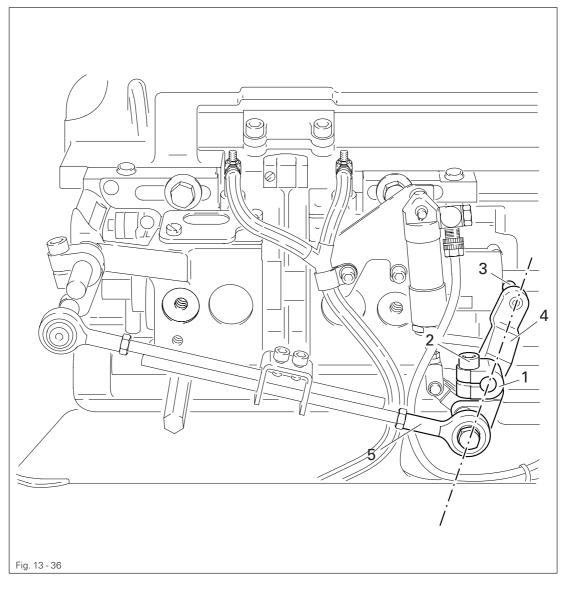
- Set thread trimmer at its resting position.
- Position retaining spring 1 (screws 2) so that the retaining lips are as close as possible to the inside wall and to the front edge of thread catcher 3.
- Bend retaining spring 1 to set its height so that there is a clearance of about 0.1 mm between top side of retaining spring 1 and thread catcher 3.



13.07.07 Thread catcher transmission crank (only on the PFAFF 1526)

Requirement

With the thread trimmer in its resting position the bearing points of roller 3, roller lever 4 and ball-joint 5 must be aligned.





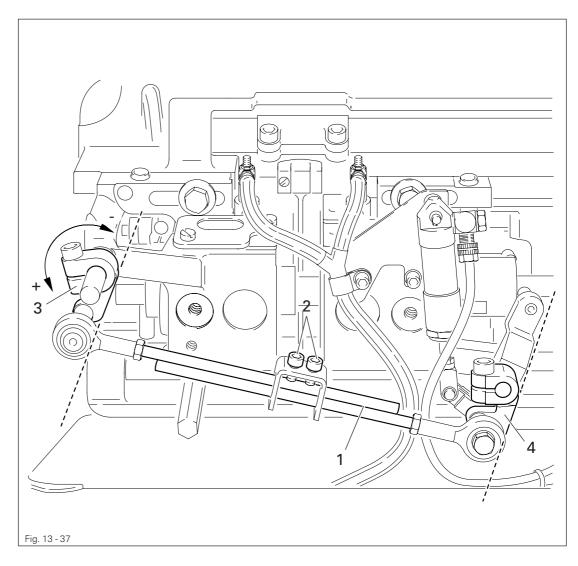
• Set thread trimmer at resting position.

• Turn transmission crank 1 (screw 2) according to Requirement.

13.07.08 Tansmission linkage (only on the PFAFF 1526)

Requirement

With the thread trimmer in its resting position, transmission cranks **3** and **4** must stand parallel with each other.





• Set the thread trimmer at its resting position.

• Adjust transmission linkage 1 (screws 2) according to Requirement.

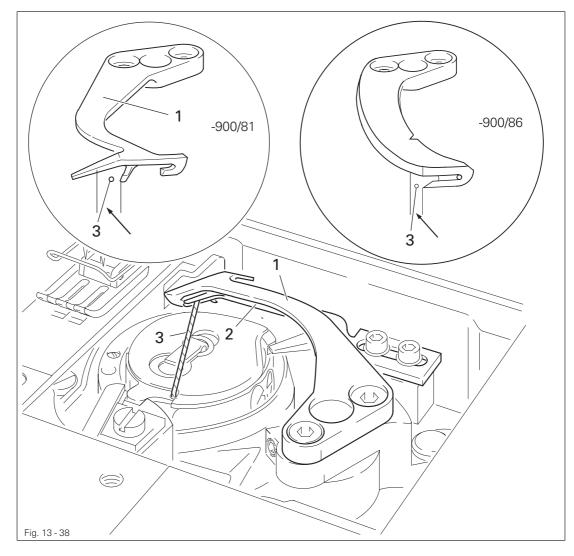


If problems occur in thread catching on the left sewing hook, the catcher stroke can be increased (+) or decreased (-) by turning transmission crank **3**.

13.07.09 Manual cutting test

Requirement

- 1. When thread catcher **1** is on its forward stroke, it must not carry bobbin thread **3** forward too.
- 2. When thread catcher **1** is in its front position, the bobbin thread **3** must be positioned in the middle of the marked area (see arrow).
- 3. After the trimming action, both needle- and bobbin thread must be perfectly cut, and bobbin thread **3** retained.





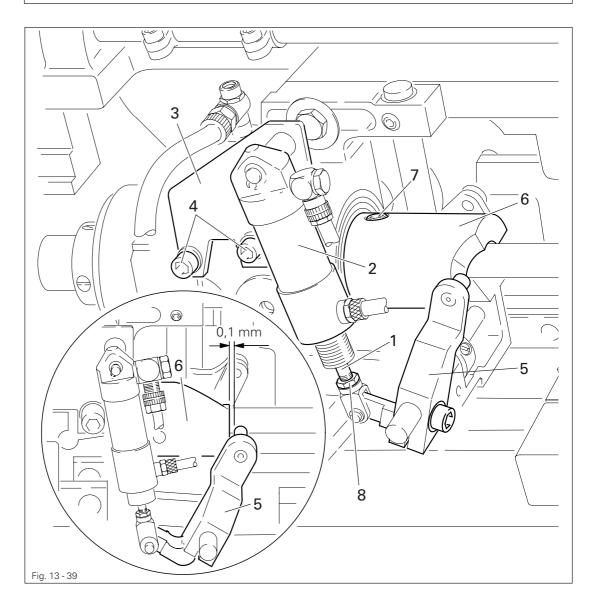
- Sew a few stitches.
- Turn off the on/off switch.
- Carry out cutting test manually.
- Check **Requirement 1** and readjust thread catcher **1** according to **Chapter 13.07.02 Thread-catcher height** if necessary.
- Check **Requirement 2** and readjust thread catcher 1 according to **Chapter 13.07.03 Thread-catcher position** if necessary.
- Check **Requirement 3** and readjust bobb-thread retaining spring **2** according to **Chapter 13.07.06 Bobbin-thread retaining spring** if necessary.

13.08 Adjusting the thread trimmer -900/82

13.08.01 Resting position of the roller lever/Preliminary adjustment of the radial position of the control cam

Requirement

- 1. When the cylinder plunger **1** is retracted, there must be a clearance of **0.1 mm** between the outer edge of control cam **6** and the roller of lever **5**.
- 2. When the take-up lever is at TDC, the control cam **6** must have moved roller lever **5** to its cutting position.





- Fully retract plunger 1 into cylinder 2.
- Re-position cylinder mounting **3** (screws **4**) according to **Requirement 1**.
- Push roller lever 5 into control cam 6.
- Set take-up lever at TDC.
- Turn control cam 6 (screws 7) according to **Requirement 2**.

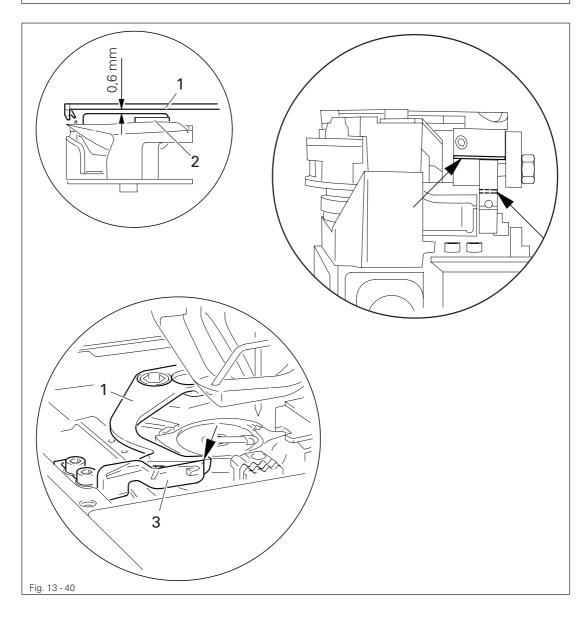


On cylinder plunger 1 about 1 mm thread must protrude above locknut 8.

13.08.02 Thread catcher and knife height

Requirement

- 1. There should be a clearance of **0.6 mm** between the lower edge of the thread catcher **1** and the bobbin case **2**.
- 2. When the thread trimmer is in its resting position the upper edges of knife **3** and thread catcher **1** should be at the same level.



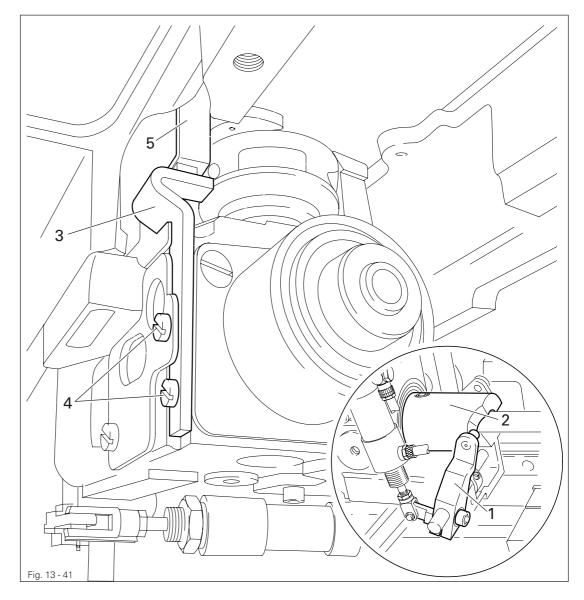


The thread catcher and knife height is pre-set by the manufacturer and can only be corrected by placing washers under the thread catcher or knife mounting (see arrow).

13.08.03 Knife mounting support

Requirement

When the thread trimmer is in its cutting position, the knife mounting support **3** must be in contact with knife mounting **5**.



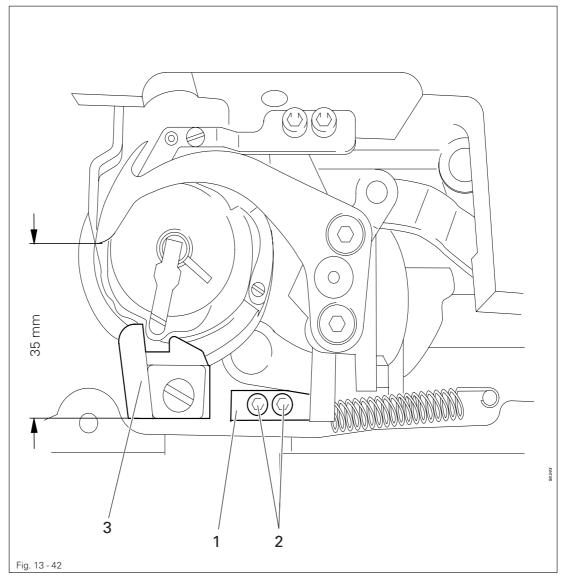


- Switch off master switch and turn off compressed air.
- Bring needle to BDC and press roller lever 1 against control cam 2.
- Bring machine into cutting position.
- Adjust knife mounting support **3** (screws **4**) on the rear side of the hook bearing according to the **requirement**.

13.08.04 Knife cutting position

Requirement

When the knife is in its cutting position, there shold be a clearance of **35 mm** between the front edge of the knife and the front edge of the position stop **3**.



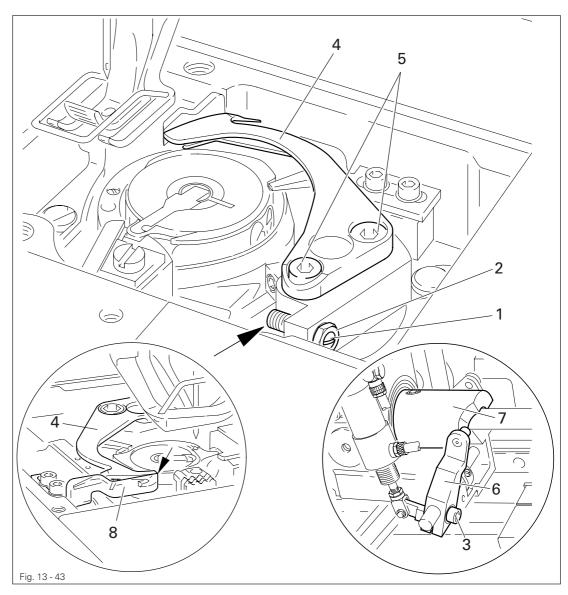


• Adjust position stop 1 (screws 2) according to the requirement.

13.08.05 Thread catcher position

Requirement

- 1. When the thread trimmer is in its cutting position, the edges of the thread catcher 4 and knife 8 must be flush (see arrow).
- 2. In this position screw 1 must be touching the knife mounting support (see arrow).



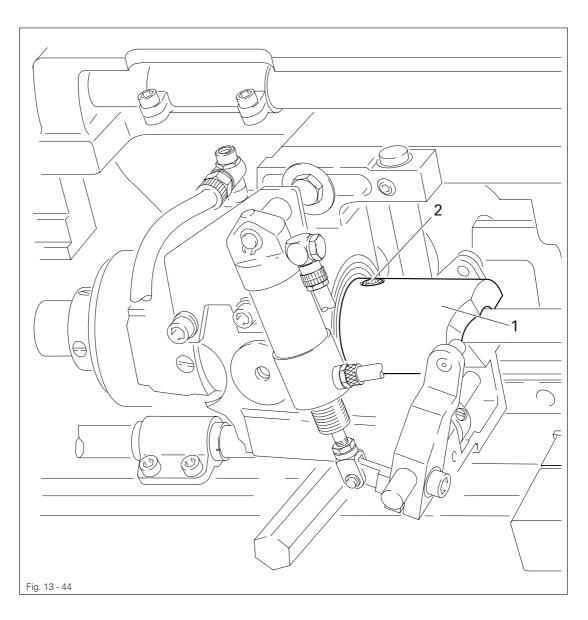


- Bring needle to BDC and press roller lever 6 against control cam 7.
- Bring machine into cutting position.
- Turn thread catcher 4 according to requirement 1.
- Tighten roller lever 6 until it is resting against control cam 7 and tighten screw 3.
- Adjust screw 1 (nut 2) according to requirement 2.

13.08.06 Readjustment of the control cam

Requirement

When the take-up lever is at TDC, the cutting process should just have ended.



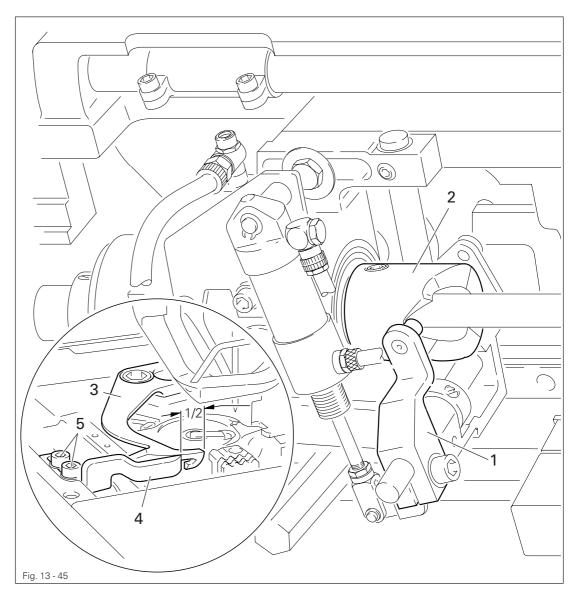


• Adjust control cam 1 (screws 2) according to the requirement.

13.08.07 Knife pressure

Requirement

When the front edge of thread catcher **3** has passed the cutting edge by half, the cutting edge of the knife **4** must rest with light pressure on the edge of the catcher.





• Set take-up lever at BDC and push roller lever 1 into control cam 2.

- Turn balance wheel until front edge of thread catcher **3** has passed the cutting edge of the knife **4** by half.
- Re-position knife 4 (screws 5) according to the requirement.



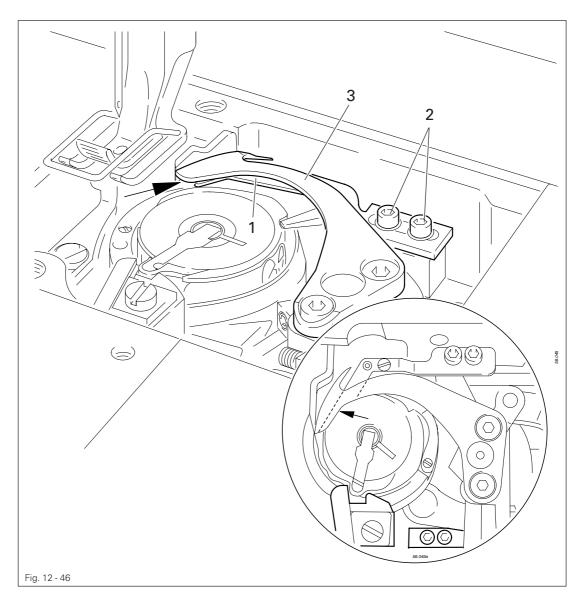
The knife pressure must be kept as low as possible, so that the position of the knife does not change during cutting.

13.08.08 Bobbin-thread retaining spring

Requirement

The retaining spring 1 must

- 1. reliably retain the bobbin thread after cutting and
- 2. neither hinder the thread return nor the removal and replacement of the bobbin case.



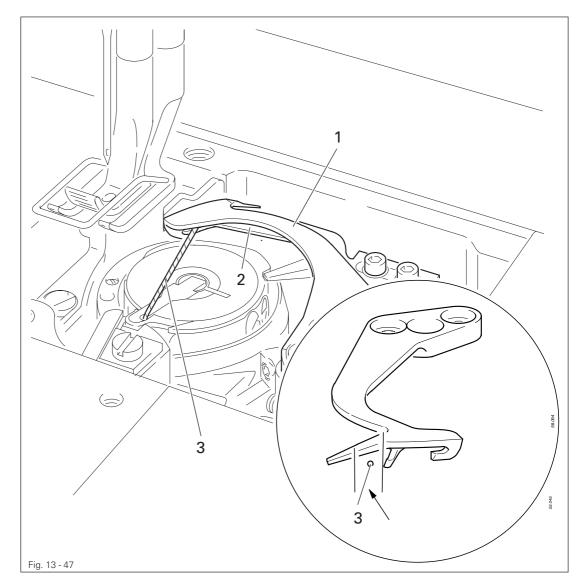


- Set thread trimmer at its resting position.
- Adjust retaining spring 1 (screws 2) so that the interior edge of the retaining spring is flush with the thread catcher 3 and as close as possible to the front edge of the thread catcher (see arrow).
- By bending retaining spring 1, adjust its height, so that the retaining spring 1 touches the bottom side of the thread catcher 3 (see arrow).

13.08.09 Manual cutting test

Requirement

- 1. When thread catcher **1** is on its forward stroke, it must not carry bobbin thread **3** forward too.
- 2. When thread catcher **1** is in its front position, the bobbin thread **3** must be positioned in the middle of the marked area (see arrow).
- 3. After the trimming action, both needle and bobbin thread must be perfectly cut, and bobbin thread **3** retained.



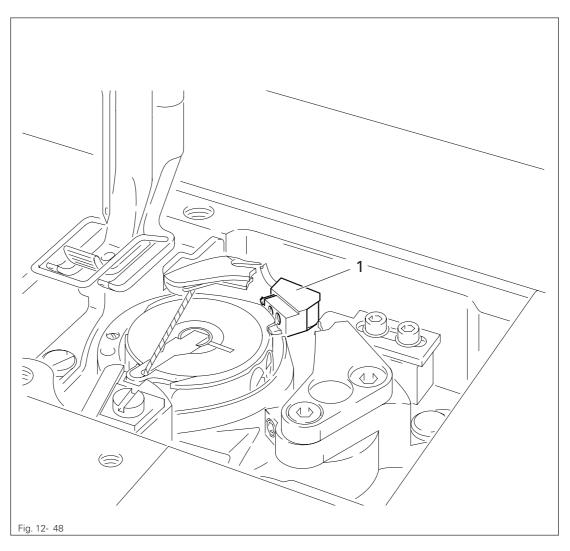


- Sew a few stitches.
- Turn off the master switch and the compressed air.
- Carry out cutting test manually.
- Check requirement 1 and readjust thread catcher 1 according to Chapter 13.08.02 Thread catcher height if necessary.
- Check requirement 2 and readjust thread catcher 1 according to Chapter 13.08.05 Thread catcher position if necessary.
- Check requirement 3 and readjust bobbin thread retaining spring 2 according to Chapter 13.08.08 Bobbin thread retaining spring if necessary.

13.09 Adjusting the bobbin-thread supply monitor -926/06 (On the PFAFF 1526 carry out this adjustment on both hooks)

Requirement

When the reflection surface is positioned at the transmitting and receiving unit, the luminous diode on the amplifier must light up and the highest possible voltage applied.





- Wind thread onto bobbin core without covering the bobbin reflection surfaces.
- Insert bobbin in hook.
- Connect amplifier on control box.
- Turn rotary potentiometer on regulator amplifier, part No. 71-8500-0091 to set highest voltage (P_{max}).
- Connect multiple tester (measuring range DC 6.5 V) to measuring sockets of amplifier. Switch on tester.
- To position the bobbin reflection surface at transmitting and receiving unit 1, pull the bobbin thread slowly until luminous diode on amplifier lights up.
- Position transmitting and receiving unit 1 by bending it so that the voltage reading is at its highest.
- If the voltage rises above 6.5 V, reduce it to 3 V and repeat this procedure until the highest possible voltage is obtained.

13.10 Parameter settings

(only on machines with Quick-EcoDrive and control unit P70ED)

• The selection of the user level and the alteration of parameters is described in the separate instruction manual for the drive unit.

13.10.01 Parameter list

					1
Group	Parameter	Description	User lever	Setting range	Set value
6	607	Speed max.	В, С	300 - 6000	
	660	Bobbin monitor function 0 = 0ff I = by sensor (-926/06) II = by stitch counting	В, С	0 -11	0
7	700	Needle position 0 Needle reference position	В, С	0 - 255	
	702	Needle position 1 (needle lowered) on the1525 and 1526 on the1526-G	B, C B, C	0 - 255 0 - 255	80 25
	703	Needle position 2 (take-up lever raised) with -900/81 with -900/82 on the1525-G-900/86	B, C B, C B, C	0 - 255 0 - 255 0 - 255	213 225 230
	705	Needle position 5 (end cutting signal 1) with -900/81and -900/86 with -900/82	B, C B, C	0 - 255 0 - 255	175 225
	707	Needle position 6 (Start tension release signal 2) on the 1525 and 1526 on the 1525-G	B, C B, C	0 - 255 0 - 255	180 200
	727	Counter for bobbin monitoring brings ON= stop and signal at output Y36 OFF = signal at output Y36 without stop	В, С	ON - OFF	0
	760	Multiplier for the fixed value (200) for stitch count	A, B, C	0 - 250	10
	799	Selected machine class	С	1 - 4	3
8	800	Rotating direction of the motor	С	0 - 1	1
9	989	Shortened trim stitch with -900/81 and -900/86 with -900/82	C C	ON - OFF ON - OFF	OFF OFF

▲ See Chapter 3 Specifications

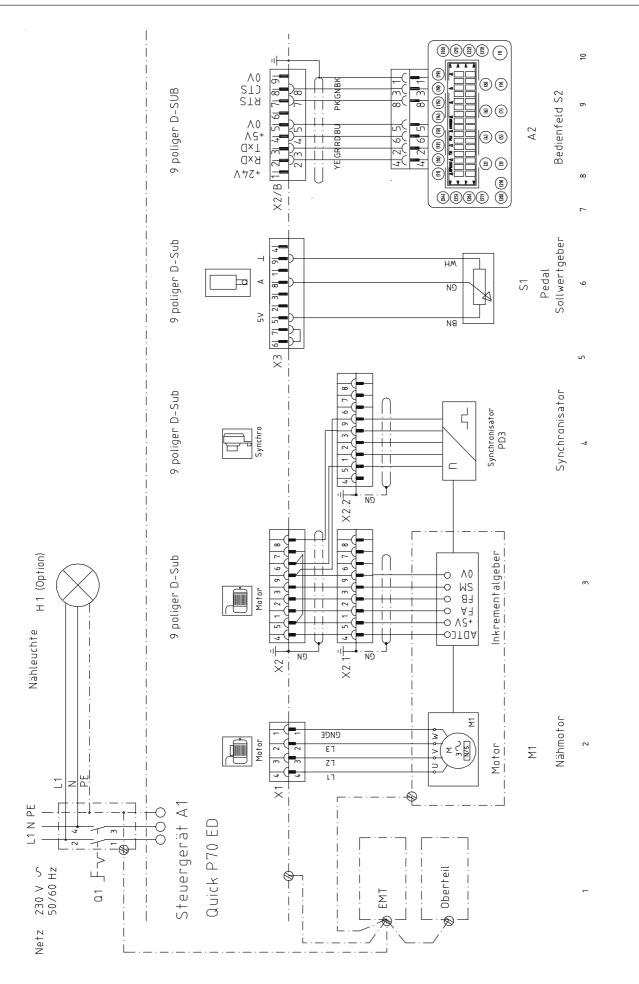


Further parameters and the description for an internet update of the machine software and reset /cold start of the machine can be found in the instruction manual for the control panel.

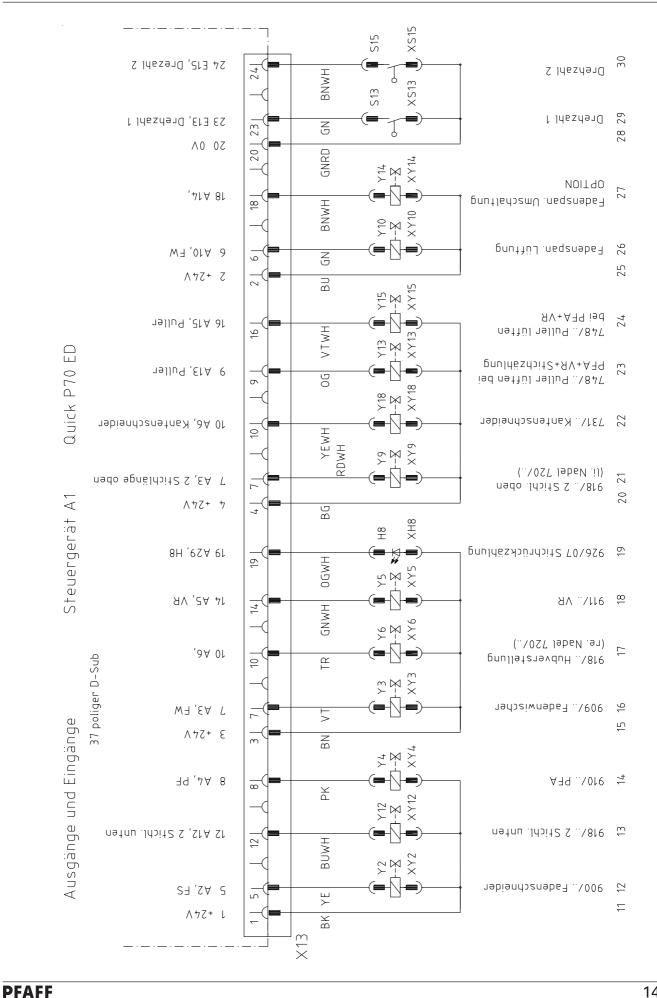
Circuit diagrams

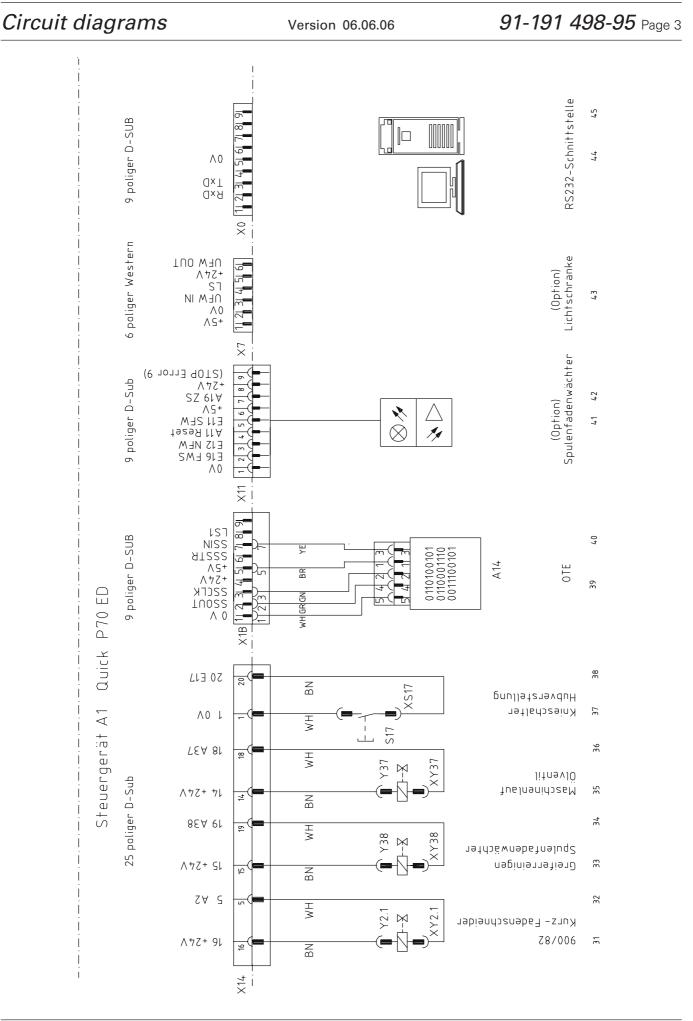
14.01	Circuit diagrams				
	Reference list for the Circuit diagrams				
	A1	Control unit Quick P70 ED			
	A2	Control panel S2			
	A14	Sewing head recognition system (OTE)			
	H1	Sewing lamp			
	H8	-926/07 LED stitch counting			
	M1	Sewing motor			
	Q1	Main switch			
	S1.1	Pedal speed control unit			
	S1	Key 1 other function depending on parameter			
	S2	Key 2 other function depending on parameter			
	S3	Key 3 other function depending on parameter			
	S4	Key 4 other function depending on parameter			
	S5	Key 5 other function depending on parameter			
	S6	Key 6 other function depending on parameter			
	S7	Key 7 other function depending on parameter			
	S13	Speed 1			
	S15	Speed 2			
	S17	Knee switch lift adjustment			
	V1	LED 1 (2) other function depending on parameter			
	V2	LED 2 (3) other function depending on parameter			
	V3	LED 3 (4) other function depending on parameter			
	V4	LED 4 (5) other function depending on parameter			
	V5	LED 5 (6) other function depending on parameter			
	V6	LED 6 (7) other function depending on parameter			
	V7	LED 7 (1) other function depending on parameter			
	X0	PC-interface (RS 232)			
	X1	Sewing motor			
	X1B	A14 Sewing head recognition			
	X2	Incremental transducer			
	X2.1	Incremental transducer			
	X2.2	Synchronizer PD 3			
	X2B	S2 control panel			
	X3	Speed control unit			
	X7	Light barrier plug (optional))			

- X11 Bobbin thread monitor (optional)
- X12 Plug key row
- X13 Output-input plug 1
- X14 Output-input plug 2
- XH8 -926/07 reverse stitch counting
- XY2 -900/.. thread trimmer
- XY2.1 -900/82 short thread trimmer
- XY3 -909/.. thread wiper
- XY4 -910/.. automatic foot lift
- XY5 -911/.. backtacking device
- XY6 -918/.. lift adjustment or -720/.. right needle
- XY9 -918/.. second top stitch length or -720/.. left needle
- XY10 Thread tension release
- XY12 -918/.. second bottom stitch length
- XY13 -748/.. lift puller
- XY14 Thread tension switchover (optional)
- XY15 -748/.. lift puller on automatic foot lift and backtacking device
- XY37 Oil valve open while machine running
- XY38 Clean hook X11 bobbin thread monitor (optional)
- Y2 -900/.. thread trimmer
- Y2.1 -900/82 thread trimmer
- Y3 -909/.. thread wiper
- Y4 -910/.. automatic foot lift
- Y5 -911/.. backtacking device
- Y6 -918/.. lift adjustment or -720/.. right needle
- Y9 -918/.. second top stitch length or -720/.. left needle
- Y10 Thread tension release
- Y12 -918/.. second bottom stitch length
- Y13 -748/.. lift puller
- Y14 Thread tension switchover (optional)
- Y15 -748/.. lift puller on automatic foot lift and backtacking device
- Y37 Oil valve open while machine running
- Y38 Clean hook X11 bobbin thread monitor (optional)

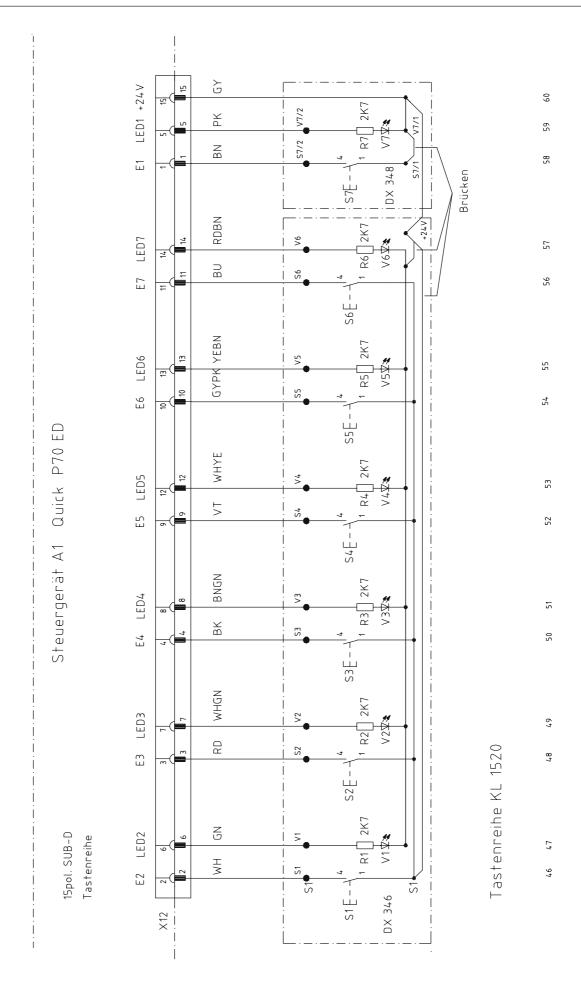


Circuit diagrams





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