

PFAFF

-948/51

Supplement to the instruction
manual and parts list for the series
1050, 1180, 5483

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1

Proper use

With the **puller** the workpiece is fed continuously, which makes it possible to sew to a great extent without shifting and puckering. The puller's linear motor enables an individual clearance space between the needle plate and the puller roller.

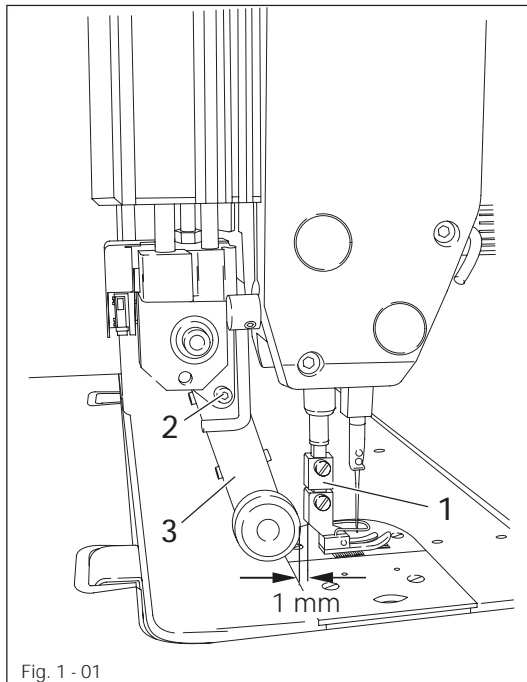
All adjustments, such as e.g. puller feed stroke, puller roller clearance etc. are carried out by altering the parameter values, see **Chapter 2.03.03 Selecting and altering parameters**.



Any use of these machines which is not approved by the manufacturer shall be considered as improper use! The manufacturer shall not be liable for any damage arising out of improper use! Proper use shall also be considered to include compliance with the operation, adjustment, service and repair measures specified by the manufacturer!

1.01

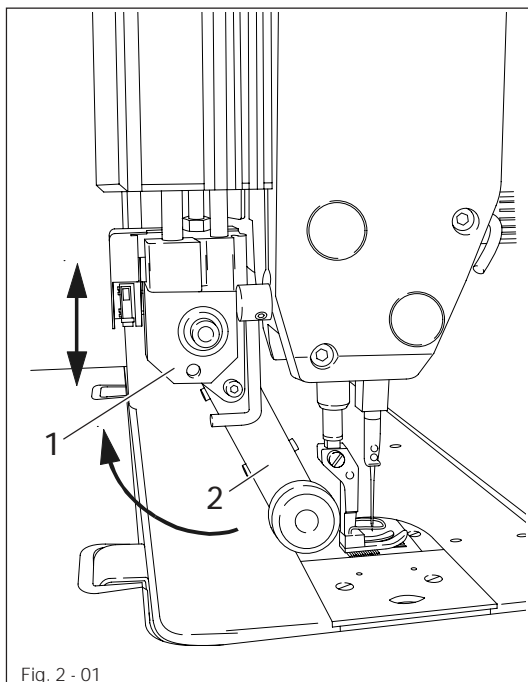
Using standard presser feet



- With the adapter 1 which belongs to the accessories, standard presser feed can also be used.
- Mount adapter 1 as shown in Fig. 1-01.
- Loosen screw 2 and push puller arm 3 back.
- Screw the presser foot onto adapter 1.
- Adjust puller arm 3 so that there is a clearance of approx. 1 mm between the puller roller and the presser foot.
- Tighten screw 2.

2 Controls

2.01 Puller functions



Engaging/disengaging the puller

- Raise the puller drive unit 1 until it locks into place and swing puller arm 2 back as far as possible. To engage the puller, follow the instructions in the reverse order.

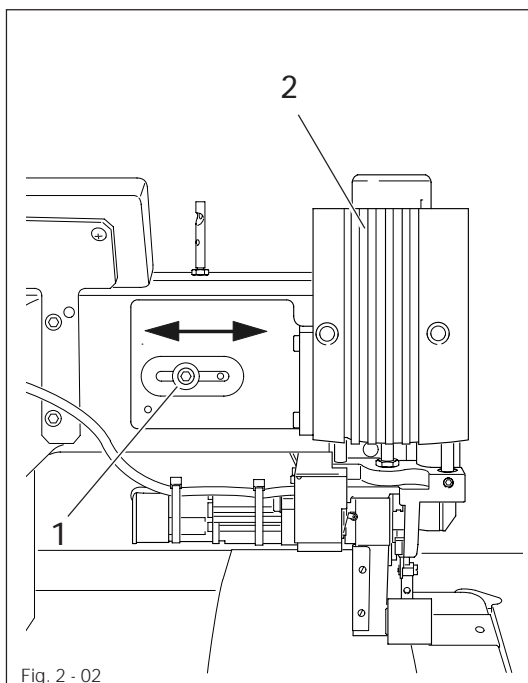
Switching the puller on/off

- The puller is automatically switched on or off when the puller unit is engaged or disengaged.

Setting the puller feed motion

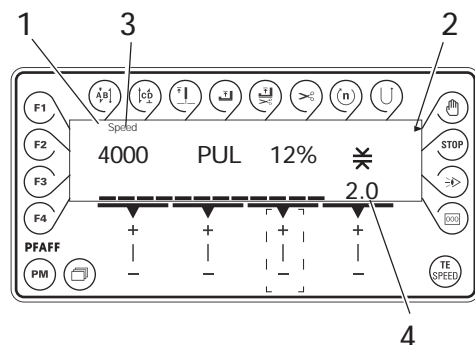
- The feed motion of the puller is set by means of parameters (see Chap. 1.06 **Parameter settings** and the Motor Instruction Manual)

2.02 Lateral alignment of the puller



- Loosen screw 1.
- Align puller 2 with the material ply.
- Tighten screw 1.

2.02 Control panel



The control panel consists of display 1 and the function keys described below. The display 1 consists of a two-line alpha-numerical LCD display with 16 symbols per line. The texts 3 show the respective status of the function keys and the operating status of the machine. The control panels switches on all LCD-segments and the horn automatically for a short time during the power-on phase, after which the lettering PFAFF appears on the display, until the higher-ranking control unit sends commands to the control panel.

2.02.01 Screen displays

- Activated functions are displayed with a triangular marking 2 below or next to the respective function key.
- In the sewing mode all relevant sewing data is displayed and these can be changed directly, depending on the status of the machine, see also **Chapter 5 Sewing**.
- During the parameter input the selected parameter number with the corresponding value is displayed, see **Chapter 2.02.03 Selecting/changing parameters**.

2.02.02 Function keys

The function keys described below are used basically to switch machine functions on and off.



If a corresponding value has to be set for the activated function, this is carried out with the corresponding +/- key. By pressing and holding the corresponding +/- key, the appropriate numerical value 4 is changed slowly to begin with. If the corresponding +/- key is held down longer, the values change more quickly.



Start backtacks

If this key is pressed, the backtacks at the beginning of the seam (start backtacks) are switched on or off. The number of forward stitches (A) or reverse stitches (B) for the start backtacks can be changed by pressing the +/- key underneath. To convert from double backtack to single backtack set the corresponding number of stitches at zero.



End backtacks

- If this key is pressed, the backtacks at the end of the seam (end backtacks) are switched on or off. The number of reverse stitches (C) or forward stitches (D) can be changed by pressing the +/- key underneath. To convert from double backtick to single backtick set the corresponding number of stitches at zero.



Needle position

- If this key is pressed the corresponding function is switched on or off. When the function is switched on, the needle positions at t.d.c. after sewing stops.



Foot position after stop

- If this key is pressed the corresponding function is switched on or off. When the function is switched on, the presser foot is raised after sewing stops.



Foot position after trimming

- If this key is pressed the corresponding function is switched on or off. When the function is switched on, the presser foot is raised after thread trimming.



Thread trimmer

- If this key is pressed the thread trimming function is switched on or off.



Speed

- If this key is pressed the corresponding function is switched on or off. In the seam program the speed is not dependent on the pedal. When the function is switched on, the speed cannot be adjusted by pedal. Sewing can only be carried out at the set maximum speed.
- If the function is switched off, the speed up to maximum speed is adjusted by the pedal.



Reverse sewing

- If this key is pressed the reverse sewing function is switched on or off.



Manual seam

- If this key is pressed the machine switches to manual sewing. When the function is switched on, the move to the next seam section is not carried out by stitch counting or sensor, but manually with the use of the pedal.



Stop

- If this key is pressed the corresponding function is switched on or off. When the function is switched on, the machine stops automatically at the end of a seam section.



Sensor

- If this key is pressed the corresponding function is switched on or off. When the function is switched on, the machine stops when the sensor recognises the edge of the material.



Stitch counting

- If this key is pressed the corresponding function is switched on or off. The value for the compensating stitches can be changed immediately with the corresponding +/- key. When the function is switched on, the machine moves to the next seam section after sewing the number of stitches entered.



TE/Speed

- In the programmed sewing mode, the number of stitches is entered by stitching them off.
- If this key is pressed once, the machine changes to parameter input.
- If this key is pressed twice (within 5 seconds) the machine changes to stitch input.



Scrolling

- If this key is pressed in the programmed sewing mode, the machine scrolls through the input menus on the display.



PM

- If this key is pressed the programmed sewing function is switched on or off. When the function is switched on, the letters "PM" appear on the display of the control panel. The parameters related to the program are shown in the alpha-numerical part of the display.

F1

No function assigned

F2

No function assigned

F3

No function assigned

F4

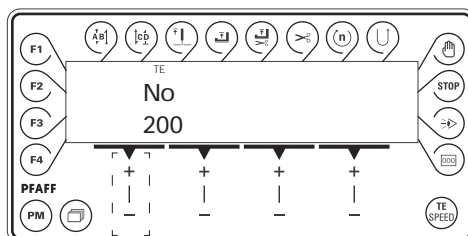
No function assigned

2.02.03 Selecting and altering parameters

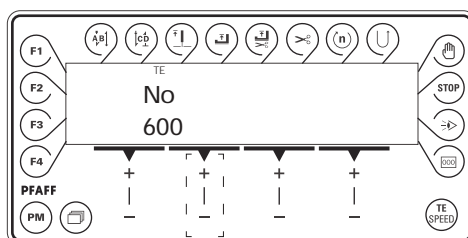
- Switch on the machine.



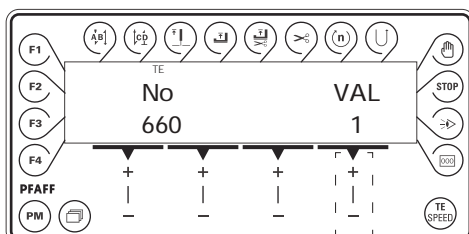
- Press the **TE/Speed** key to call up the parameter input function.



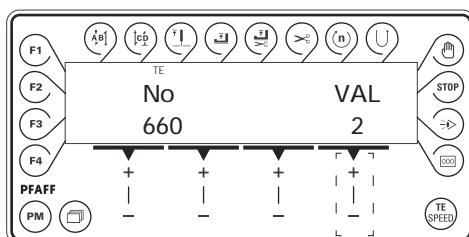
- No** ● By pressing the corresponding +/- key select the desired parameter group, e.g. "600".



- No** ● By pressing the corresponding +/- key select the desired parameter, e.g. "660" for the bobbin thread monitoring function.



- VAL** ● By pressing the corresponding +/- key set the desired value for the parameter selected, e.g. "2" for the "bobbin rest thread counter on" function.



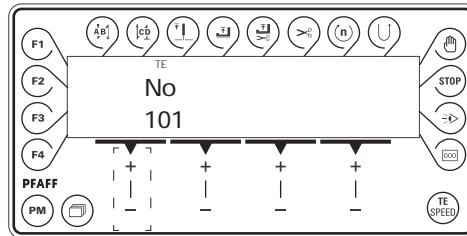
- Press the **TE/Speed** key to take over the value and change to the sewing mode.

2.02.04 Selecting the user level

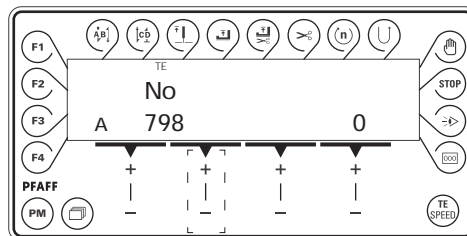
- Switch on the machine.



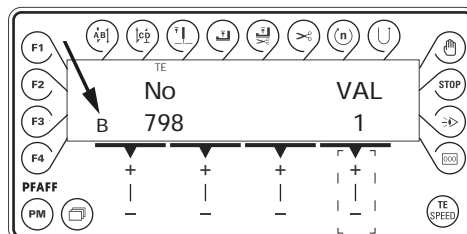
- Press the **TE/Speed** key to call up the parameter input function.



- No** ● By pressing the corresponding +/- key select the parameter group "700".



- No** ● By pressing the corresponding +/- key select the parameter "798".



- VAL** ● By pressing the corresponding +/- key select the desired user level:

- "0" = operator level **A**
- "1" = technician level **B**
- "11" = service level **C**

The respective level is displayed on the screen. (see arrow)

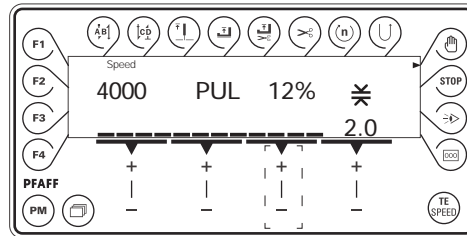


- Press the **TE/Speed** key to take over the value and change to the sewing mode.

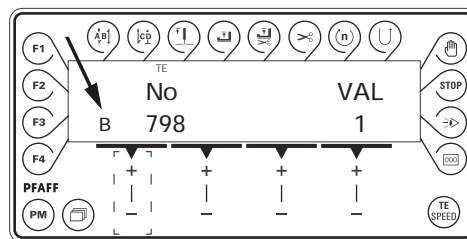
3 Commissioning

3.01 Basic position of the machine drive

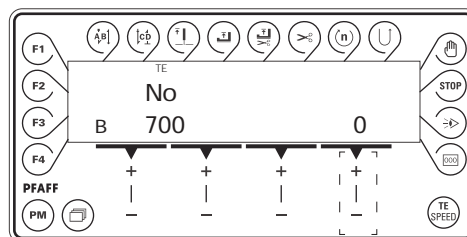
- Switch on the machine.



- Press the TE/Speed key to call up the parameter input function.
- Select the technician level B (value "1") with parameter "798", see Chapter 2.03.04 Selecting the user level.



- No ● By pressing the corresponding +/- key select the parameter group "700".



- Sew a stitch by operating the pedal.
- Turn the balance wheel in the direction of sewing until the needle point is level with the top edge of the needle plate.

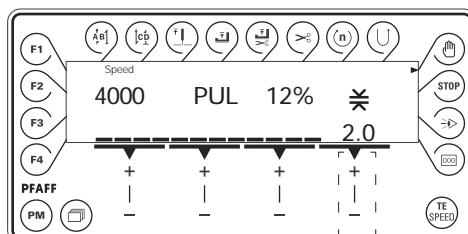


- Press the TE/Speed key to take over the setting and to conclude the input.

4 Setting up

4.01 Entering the puller feed stroke (stitch length)

- Switch on the machine.

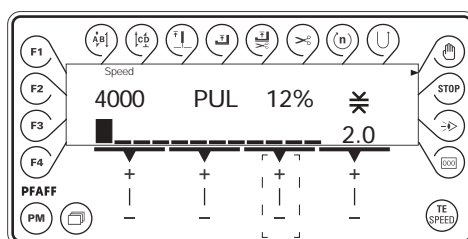


- ✂ ● Enter the feed stroke by pressing the corresponding +/- key.



The puller feed stroke setting must match the stitch length setting of the basic machine!

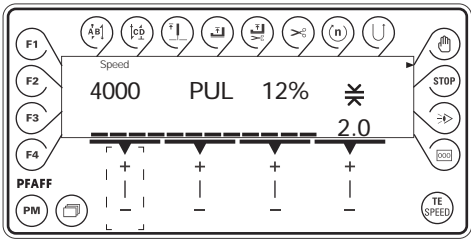
4.02 Setting the puller pressure



- Switch on the machine.
- Set the desired puller pressure by pressing the corresponding +/- key.
The current puller pressure can be read on the display as a bar graph and as a value (in %).

4.03 Entering the maximum speed

- Switch on the machine.



- Enter the maximum speed by pressing the corresponding +/- key.

4.04 Entering the start and end backtacks

- Switch on the machine.



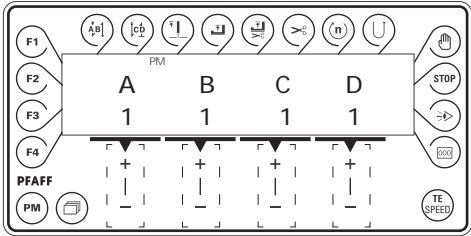
- Select the manual sewing mode by pressing the "PM" key.



- Press the TE/Speed key twice to select the input menu for start and end backtacks.



In the programmed sewing mode it is possible to call up the input menu for start and end backtacks by pressing the scroll key, see Chapter 5.02 Programmed sewing.



- A ● By pressing the corresponding +/- key select the desired value for the number of forward stitches (A) of the start backtack.
- B ● By pressing the corresponding +/- key select the desired value for the number of reverse stitches (B) of the start backtack.
- C ● By pressing the corresponding +/- key select the desired value for the number of reverse stitches (C) of the end backtack.
- D ● By pressing the corresponding +/- key select the desired value for the number of forward stitches (D) of the end backtack.



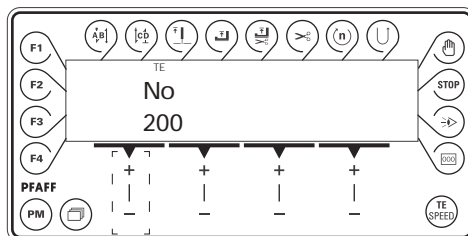
- Press the TE/Speed key to store the selected setting and to conclude the input.

4.05 Setting the stitch counting function for the bobbin thread control

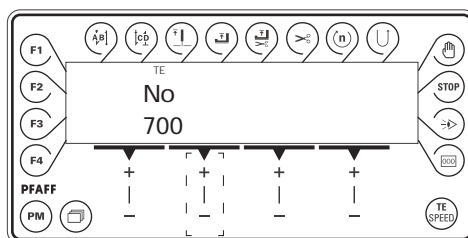
- Switch on the machine.



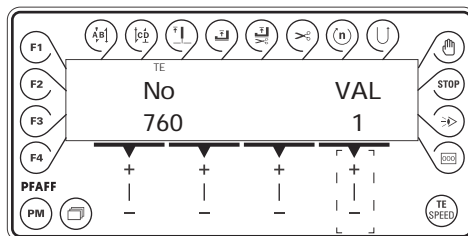
- Press the **TE/Speed** key to call up the parameter input function.



- No** ● By pressing the corresponding +/- key select the parameter group "700".



- No** ● By pressing the corresponding +/- key select the parameter "760".



- VAL** ● By pressing the corresponding +/- key set the number of remaining stitches, which can be sewn after recognition by the bobbin thread monitor. Among other things the setting depends on the thread size.



- Press the **TE/Speed** key to take over the value and change to the sewing mode.



The remaining bobbin thread counter can only be used, when parameter "660" is set at the value "1" or "2".

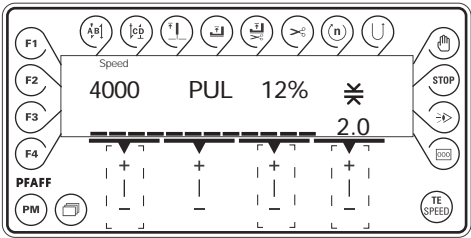
5 Sewing

In the sewing mode all relevant adjustments for the sewing operation are shown on the display and can be altered directly. Functions can be switched on and off by pressing the key.

PM In this mode a difference is made between **manual sewing** and **programmed sewing**. To change from manual to programmed sewing, press the **PM** key. In programmed sewing the text "PM" appears on the display.

5.01 Manual sewing

After the machine has been switched on, the maximum speed, the puller feed stroke and the puller pressure can be adjusted with the corresponding +/- keys.



Further functions in manual sewing, also see Chapter 2.02.02Function keys:

- | | | | |
|--|-------------------------------|--|---|
| | Start backtacks on/off | | Presser foot raised at end of seam on/off |
| | End backtacks on/off | | Thread trimming on/off |
| | Needle position raised on/off | | Sensor on/off |
| | Presser foot raised on/off | | |

On the basic machine the stitch length is adjusted with the balance wheel.
The stitch length for the puller is adjusted on the control panel

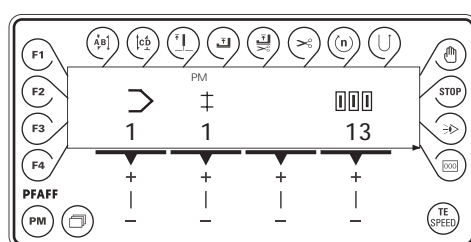
5.02 Programmed sewing

In the programmed sewing mode 99 programs, each with 9 seam sections and 999 stitches, can be programmed.

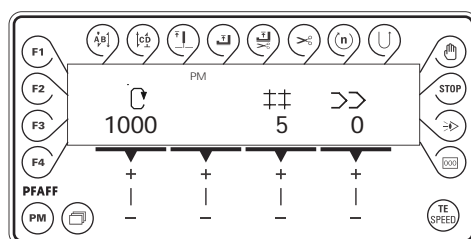
The fixed programs are used for the quick and easy production of seams with different numbers of stitches. The pedal setting „0“ is used to switch to the next seam section.

PM

After the machine has been switched on and the programmed sewing mode has been selected with the **PM** key, the display appears for selecting the program number, seam section and number of stitches.



With the **scroll** key other menus can be selected for entering the values for start and end backtacks and the maximum speed in the corresponding seam section.

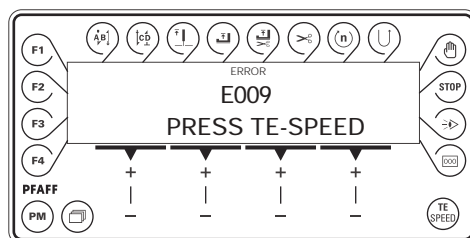


Further functions in programmed sewing, also see **Chapter 2.02.02 Function keys**:

	Start backtacks on/off		Seam section speed on/off
	End backtacks on/off		Reverse sewing direction on/off
	Needle position raised on/off		Manual sewing on/off
	Presser foot raised on/off		Stop on/off
	Presser foot raised after thread trimming on/off		Sensor on/off
	Thread trimming on/off		Stitch count on/off

5.03 Error messages

If a fault occurs, the text "ERROR" appears on the display, together with an error code and short instructions. An error message is caused by incorrect settings, faulty elements or seam programs as well as by overload conditions.



- Correct the error.



- Acknowledge error correction by pressing the TE/Speed key.

6 Parameter Settings

Group	Parameter	Description	Access level	Adjustment range	Standard value
2	252	Puller roller clearance for start backtack ca. 4 mm	A, B, C	0 – 100	30
	253	Puller starting time in intermittent sector (on PFAFF 1051 and 1181) (on PFAFF 1053 and 1183)	B, C, B, C		20 140
	254	Puller roller clearance after trimming ca. 7 mm	B, C	10 – 100	40
	261	Starting properties of the puller roller	B, C	20 – 80	60
	262	Puller roller feed stroke in intermittent operation	B, C	20 – 140	80
3	302	Holding power of puller roller when rising	B, C	50 – 150	100
4	445	No. of stitches before puller roller touches down after machine start	B, C	0 – 99	0
	499	Stitches for puller delay after knee switch	A, B, C	0 – 99	0
6	660	Bobbin thread monitoring 0 = off 1 = on 2 = bobbin rest thread counter on	A, B, C	0 – 2	1
7	760	No. of stitches to bobbin thread monitor	A, B, C	0 – 250	1



The standard values listed in the table are basic settings, which can be altered if necessary.

For more displays and information see the motor instruction manual.

Internet-Update der Maschinen-Software

The machine software can be updated with PFAFF flash programming. For this purpose the PFP boot program and the appropriate control software for the machine type must be installed on a PC. To transfer the data to the machine, the PC and the machine control unit must be connected with an appropriate null modem cable (part no. 91-291 998-91).



The PFP boot program and the control software of the machine type can be downloaded from the PFAFF-homepage using the following path:
www.pfaff-industrial.de/de/service/download/steuerungssoftware.html

To update the machine software carry out the following steps:



While the machine software is being updated, no setting up, maintenance or adjustment work may be carried out on the machine!

- Switch off the machine.
- Connect the PC (serial interface or appropriate USB-adapter) and the machine control unit (RS232).
- Switch on the PC and start the PFP boot program.
- Select the machine type.
- Press the „programming“ button.
- An auxiliary program (Quickloader) is started.
- Switch on the machine within 60 seconds.
- The software update is carried out, the updating status is shown on the bar display.
- After the update has been completed, the message **"Software updated successfully completed"** appears.



If this message does not appear, the entire procedure must be repeated!
The operational reliability of the machine is not restored until the programming has been carried out successfully and without errors.

- Switch off the machine, end the quickloader and PFP-boot program.
- End the connection between the PC and the machine control unit.
- Switch on the machine.

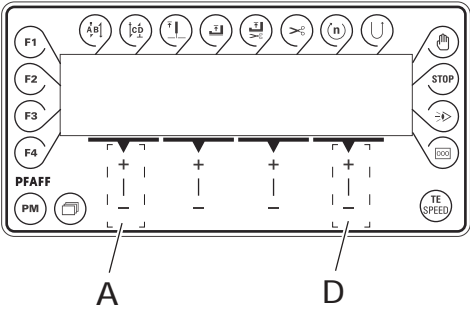
A plausibility control is carried out and, if necessary, a cold start.



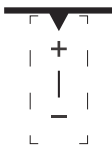
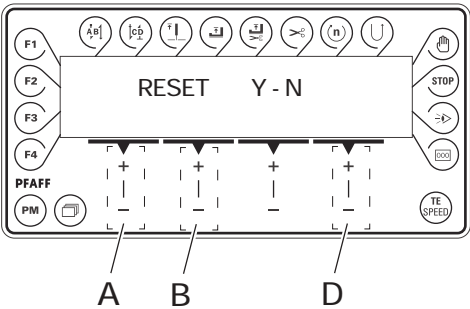
More information and assistance is at your disposal in the file „PFPHILFE.TXT“, which can be called up from the PFP boot program by pressing the „help“ button.

8 Reset / Cold start

After selecting the reset menu, by pressing the corresponding key it is possible to delete seam parameters, to delete seam programs or to carry out a cold start.

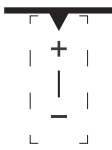


- Press and hold "+" on keys A and D and switch on the machine.



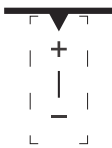
Resetting the seam parameters

- Press "+" on key A.
All seam parameters are deleted, "MASTER-RESET" is displayed for a short time on the screen.



Resetting the seam programs

- Press "+" on key B.
All seam programs are deleted, "MASTER-RESET" is displayed for a short time on the screen.

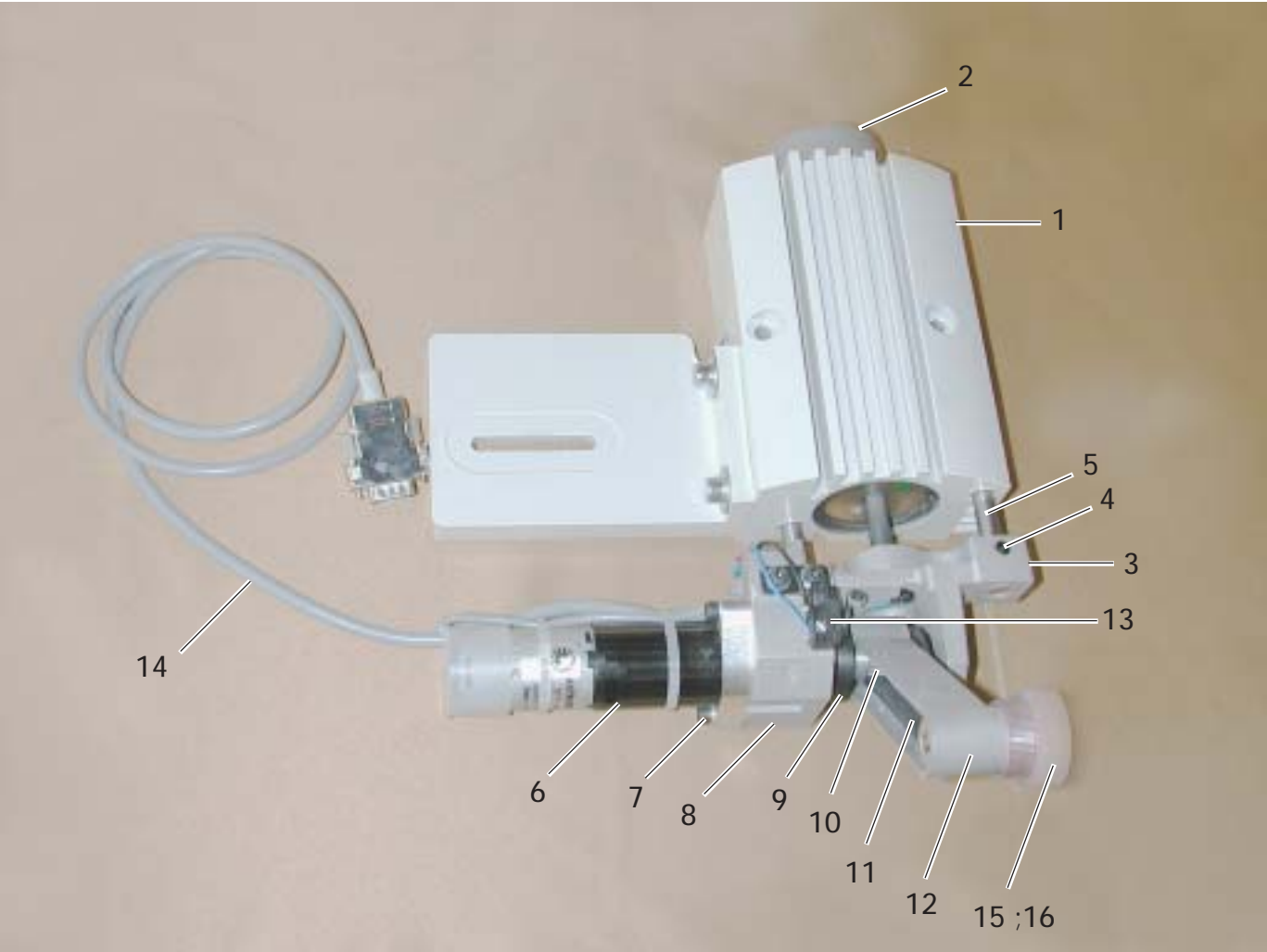


Cold start

- Press "+" on key D.
The values of the machine control unit are set back to their basic values, except the value for the machine class. "COLD START" is displayed for a short time on the screen.



After a cold start, all programmed values are reset to the condition at the time of delivery.



From the library of: Diamond Needle Corp

Item No.	Part No.
1 - 15	91-264 251-71/895
1	91-262 916-91
2	91-262 983-75/699
3 - 4	91-262 920-91
3	91-262 921-05
4	11-330 277-15 (2x)
5	91-262 919-05 (2x)
6	71-520 008-20
7	11-130 191-15 (2x)
8	91-262 914-05

Item No.	Part No.
9	91-262 860-92
10	91-262 865-92 (2x)
11	16-409 981-05
12	91-264 249-91
13	71-120 006-33
14	95-784 321-91
15	91-264 236-01 (10 mm wide)
16	91-264 170-01 (15 mm wide)
	91-264 173-01 (20 mm wide)
	91-264 166-01 (30 mm wide)



Notes

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