

2595 2596

SET-UP INSTRUCTIONS

| The reprinting, copying or translation of PFAFF Service Manuals - whether in whole or in part - is only permitted with our prior consent and with reference to the source. |
|--|
| PFAFF Industriesysteme und Maschinen AG |
| Hans-Geiger-Str. 12 - IG Nord D-67661 Kaiserslautern |

Index

| | Contents | Page |
|------|---|------|
| 1 | General Notes | 4 |
| 1.01 | Explanation of the symbols | 4 |
| 2 | Scope of delivery | 5 |
| 2.01 | Sewing machine accessories | 5 |
| 2.02 | Accessories for the sewing machine drive EcoDrive P74 ED-L | 8 |
| 3 | Stand and table top | 10 |
| 3.01 | Table top cutout (PFAFF 2595 / 2596 PLUS with tilted work base) | 10 |
| 3.02 | Table top cutout (PFAFF 2595 / 2596 BASIC + PLUS without tilted work base | 11 |
| 3.03 | Table top cutout (PFAFF 2595 / 2596 BASIC with clutch motor | |
| | - without tilted work base) | 12 |
| 3.04 | Assembly drawing for the table top (PFAFF 2595 / 2596 PLUS | |
| | - with and without tilted work base) | 13 |
| 4 | Installation | 14 |
| 4.01 | Assembling the stand and table top | 14 |
| 4.02 | Adjusting the table-top height | 15 |
| 4.03 | Assembling the EcoDrive control unit P74 ED-L | 16 |
| 4.04 | Setting the sewing machine into the stand | 17 |
| 4.05 | Assemble the mounted motor | 18 |
| 4.06 | Apply drive belt and tension | |
| 4.07 | Mounting the belt guard of the flange motor | 19 |
| 4.08 | Connecting the safety switch | 20 |
| 4.09 | Checking the start inhibitor function | 20 |
| 4.10 | Assembling the LED lamp (optional) | 21 |
| 4.11 | Fitting the transformer to the LED lamp | 22 |
| 4.12 | Assembling the thread guide and take-up lever guard | 23 |
| 4.13 | Assembling the top V-belt guard and sewing head support | 24 |
| 4.14 | Mounting the control panel | 25 |
| 4.15 | Connecting the plug-in connections and earth cables | 26 |
| 4.16 | Block diagram PFAFF 2595/96 PLUS with EcoDrive P74 ED-L | 27 |
| 4.17 | Mounting / connecting the maintenance unit | 28 |
| 5 | Commissioning | 29 |
| 5.01 | Switching the machine on/off | 20 |

General Notes

1 General Notes



The machine may only be set-up and commissioned by qualified personnel! All notes in Chapter 1 Safety of the Instruction Manual must be observed!



There must be suitable electrical connections at set-up site, see Chapter 3 Specifications of the Instruction Manual. A firm, level surface and adequate lighting must also be available at the set-up site.



If the machine was delivered without a table, both the stand and the table top intended for use must be constructed for a weight of at least 100 kilos.

1.01 Explanation of the symbols

In these Set-Up Instructions, 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

Safety symbols



Danger!
Points to be observed.



Danger of injury for operating and specialist personnel!

The scope of delivery of the machine depends on the order.

Before setting up the machine, check whether all the required parts have been included. The following description only applies to one special sewing machine, for which all individual components have been delivered by the PFAFF Industrie Maschinen AG.

2.01 Sewing machine accessories

| Sewing machine accessories | Description / No. of pieces |
|----------------------------|---|
| | Thread guide and take-up lever guard with screws and nuts(1x) |
| | V-belt and belt guard with screws (1x) |
| | Bobbin (5 x) |
| | Reel stand complete (1x) |

| Sewing machine accessories | Description / No. pieces |
|----------------------------|--|
| | Rear rubber pads with screws (2x) Front rubber pads (4x) Hinge with screws (2x) |
| | Sewing head support |
| | Tilt lock (1x) |
| | Oil pan with 5 screws and washers |
| ÖL | Oilcan (1x), Sachet with 80 ml oil, Dusting brush (1x) |
| | Allan key 3 mm (1x), Screwdriver large (1x), Screwdriver small (1x) Sewing head protective cover |

| Constitute | Description (N) C |
|----------------------------|--|
| Sewing machine accessories | Description / No. of pieces Earth cable (3x) , Screw and washers |
| | Motor bracket with fixing screws |
| | Drive wheel, drive belt, belt guard and approach barrier switch with Fixing screws |
| PFAFF POWERLING | Set-up instructions, instruction manual to the machine |

2.02 Accessories for the sewing machine drive EcoDrive P74 ED-L

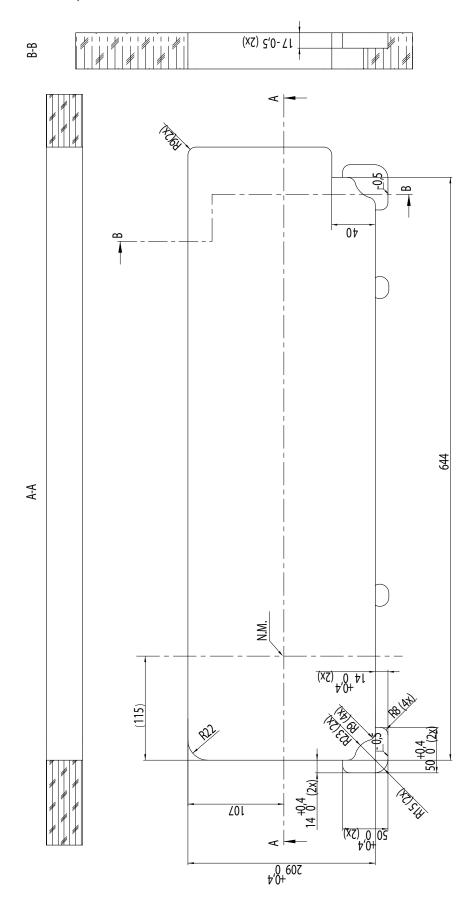
| Control package EcoDrive P74 ED-L | Description |
|-----------------------------------|---|
| | Motor |
| | Control box with switch, fastening screws and cable |
| | Adapter cable for synchronizer |

| Control package EcoDrive P74 ED-L | Description |
|-----------------------------------|---|
| | Control panel bracket with control panel and fastening screws |
| | Speed control unit with holder and fastening screws, and connecting rod to the pedall |

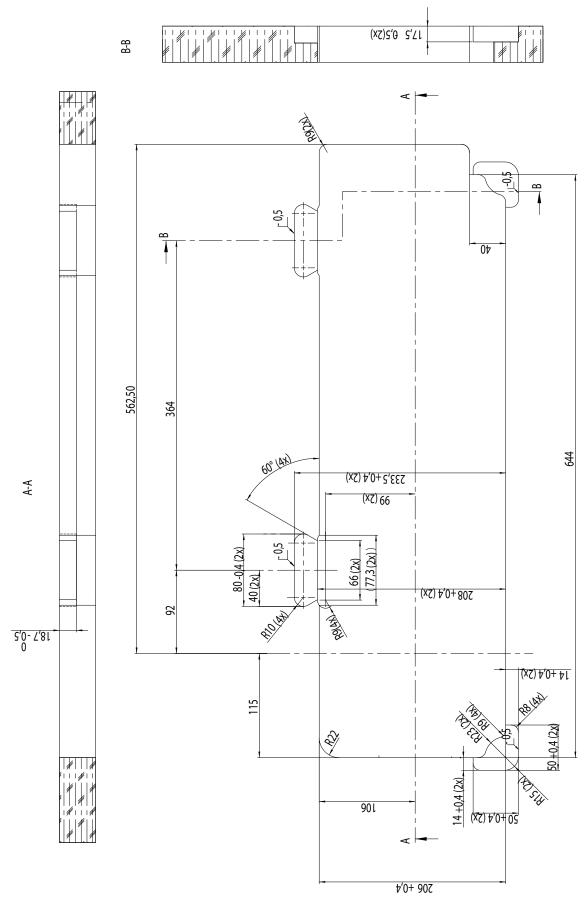
Stand and table top

3 Stand and table top

3.01 Table top cutout (PFAFF 2595 / 2596 PLUS with tilted work base)



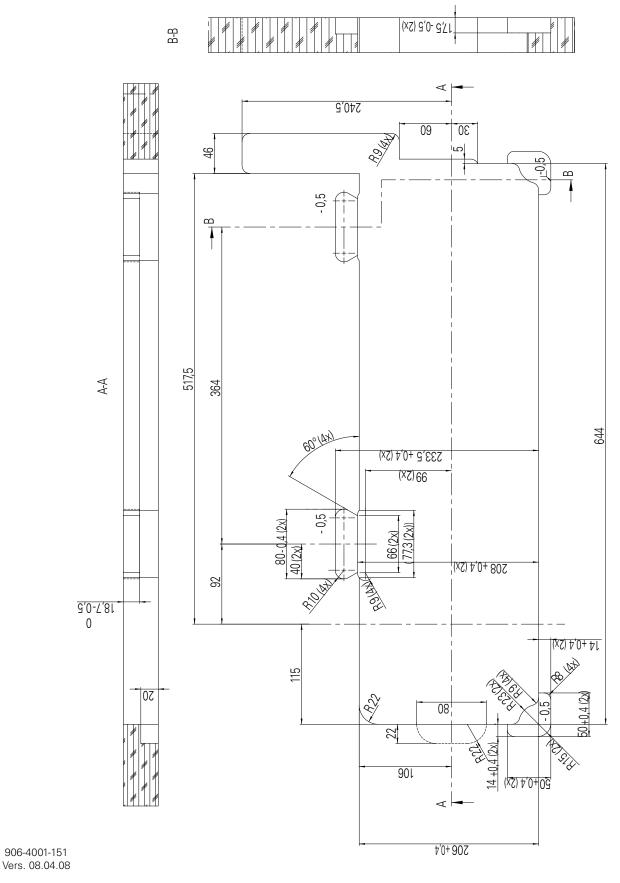
3.02 Table top cutout (PFAFF 2595 / 2596 BASIC + PLUS without tilted work base



Stand and table top

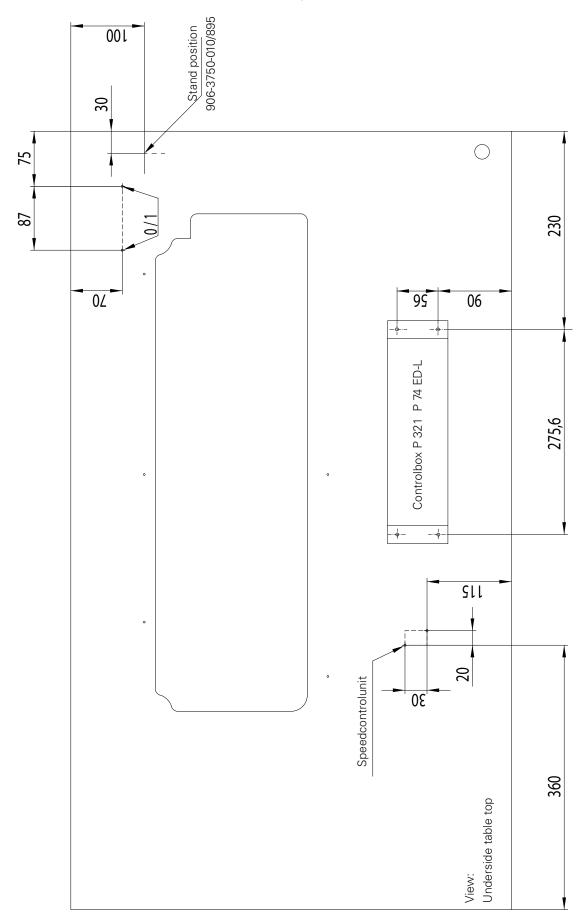
3.03 Table top cutout (PFAFF 2595 / 2596 BASIC with clutch motor

- without tilted work base)



3.04 Assembly drawing for the table top (PFAFF 2595 / 2596 PLUS

- with and without tilted work base)

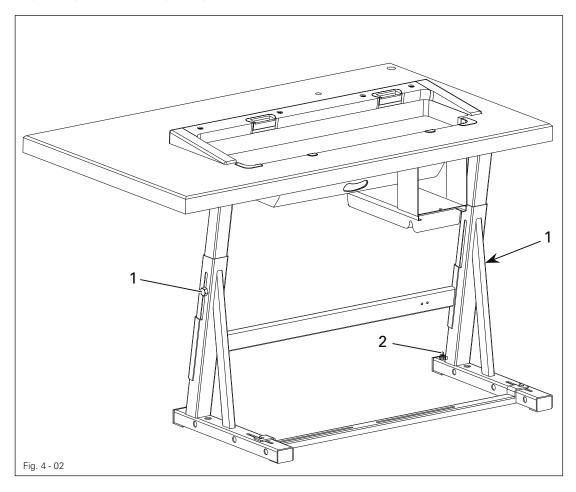


4 Installation

4.01 Assembling the stand and table top

• Assemble the stand (part no. 906-3750-010/895) and table top as shown in the following illustration. The stand and table top must be constructed for a weight of at least 100 kg. When assembling the table top, please observe the assembly drawing (Chapter 3.04). 4,2x13 (4x) 3x20 (6x) 6x40 (4x) 4x30 (4x) Stand 906-3750-010/895 M10x20 (4x)

4.02 Adjusting the table-top height





Loosen screw 1.

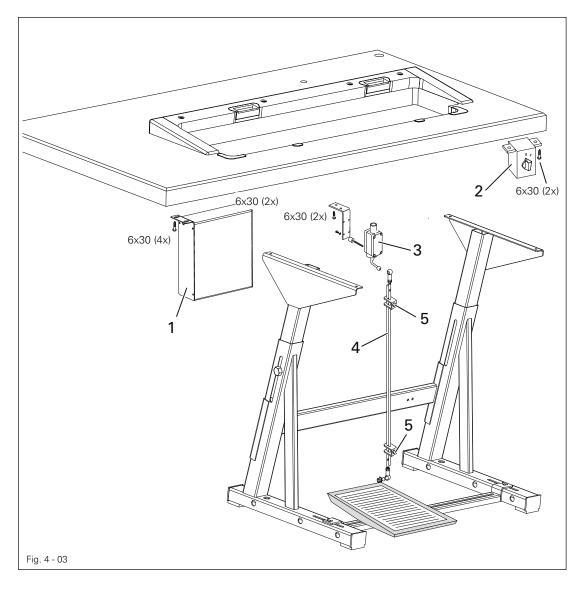
 Adjust the table tap to the required working height by increasing or reducing the height of the stand and then level the table-top horizontally.



To avoid the stand tilting, adjust it evenly on both sides.

- To guarantee that the stand is standing securely, it must be positioned securely on the ground with all four legs.
- The height can be adjusted with screw 2.

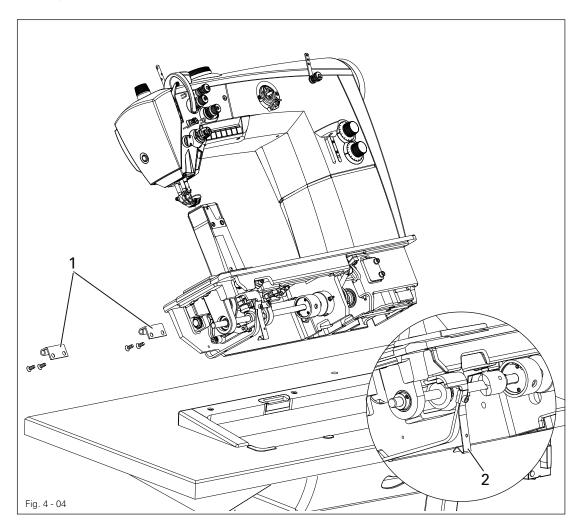
4.03 Assembling the EcoDrive control unit P74 ED-L





- Fit the control box 1 to the table top with four screws 6x30.
- Attach the mains switch 2 to the table top with two screws 6x30.
- Screw the mains cable of the control box 1 to the table top with a mains lead cleat.
- Assemble the speed control unit 3 and attach it to the table top with two screws 6x30.
- Mount the pedal on the stand's cross-bar, aligning the middle of the pedal with the centre of the needle.
- Fit connection rod 4 to speed control unit 3 and to the pedal.
- The slant of the pedal can be adjusted after loosening screw 6 (slant angle approx. 10°).

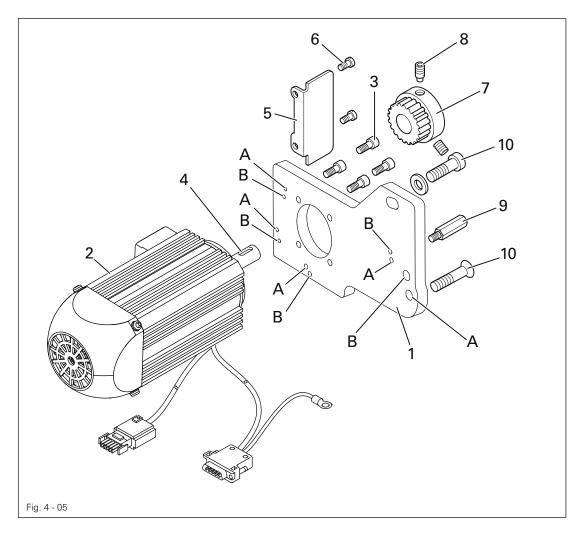
4.04 Setting the sewing machine into the stand





- Attach each of the hinges 1 to the sewing head with two screws M6 x 16.
- On the PFAFF 2595 and 2596 attach tilt lock 2 with a M5 x 6 screw.
- Set the sewing machine into the table top.

4.05 Assemble the mounted motor





- Fix bearing plate 1 on to motor 2 using screws 3, as shown in fig. 4-05.
- Remove the wedge from motor shaft 4.
- Attach angle bracket 5 with screws 6.
- Mount drive belt wheel 7 onto motor shaft 4 so that screw 8 is positioned with the hub in the drive shaft slot.
- Screw threaded bolts 9 into bearing plate 1.
- Use screw 10 (Fig. 4 06 to fix motor 2 bearing plate 1 to the machine housing.
 Tighten screws 10 only a little.



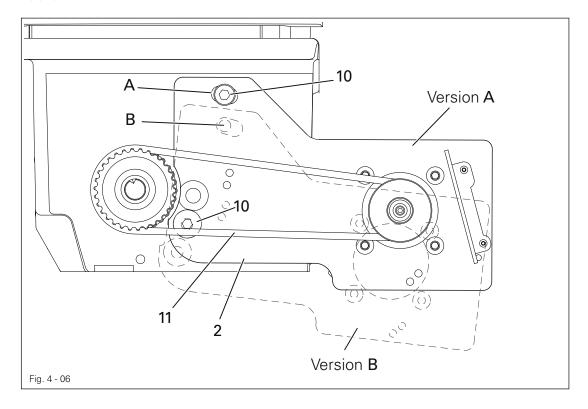


The threaded bolts 9 and the screws 6 and 10 can be screwed into the respective holes A or B depending on the table top:

Hole A = table top without tilt base

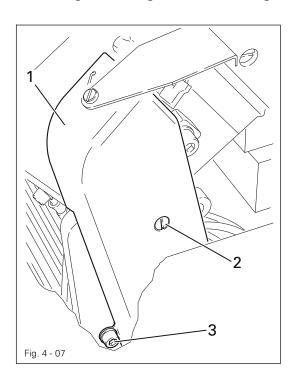
Hole B =table top with tilt base.

4.06 Apply drive belt and tension



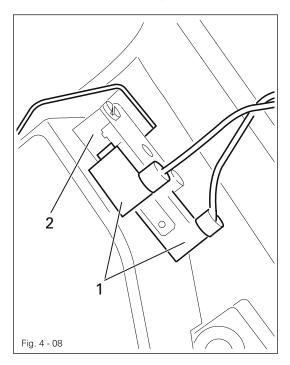
- Lay on the drive belt 11.
- Pivot the motor bearing plate 2 so that the drive belt 11 is taut.
- In this position, tightly fix screw 10.

4.07 Mounting the belt guard of the flange motor



• Attach belt guard 1 with screws 2 and 3.

4.08 Connecting the safety switch



 Connect plug 1 of safety switch 2 as shown in Fig. 4 - 08.

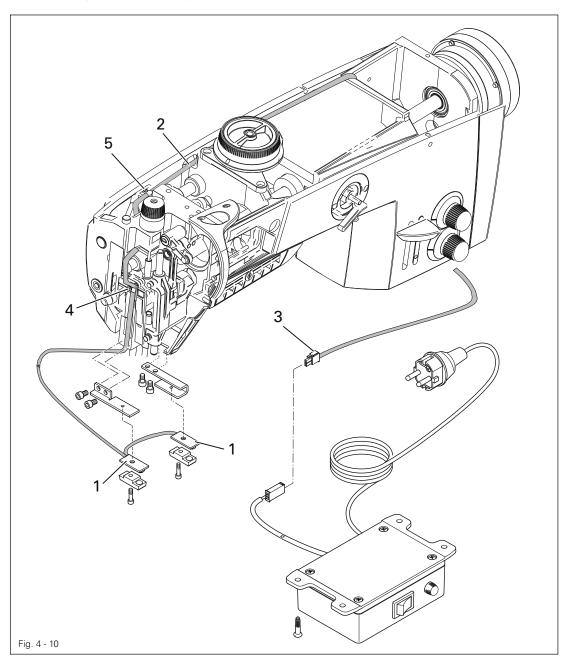


When the machine head is tilted back, the safety switch prevents the machine from starting when the main switch is on.

4.09 Checking the start inhibitor function

- Switch the machine on at the main switch and tilt back the sewing head.
- The error message "Err: 9" must appear on the control panel.
- If the message does not appear, check the setting of safety switch 2.
- After the sewing head has been returned to the upright position, the machine is ready for operation again.

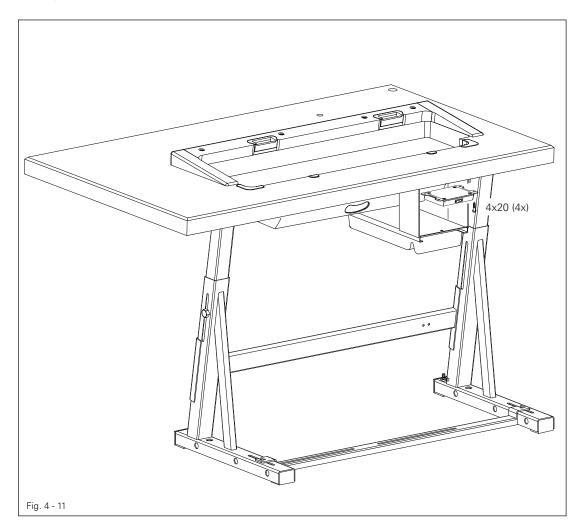
4.10 Assembling the LED lamp (optional)





- Unscrew the head and arm cover.
- Remove the complete voltage mounting plate.
- Assemble the LED lamps 1 as shown in Fig. 4-10.
- Install cable 2 in the recess of the machine arm and lead plug 3 down through the machine.
- Secure cable 2 with clamps 4 and 5 and the corresponding available screw.
- Reattach the voltage mounting plate and head and arm cover.

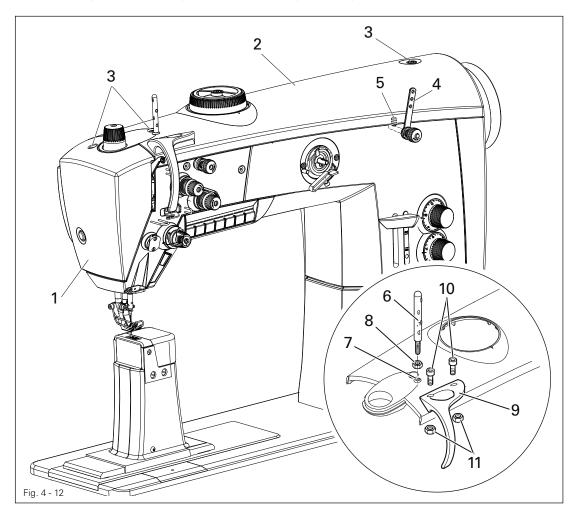
4.11 Fitting the transformer to the LED lamp





- Attach transformer 1 to the table top with four screws 4 x 20.
- Screw the power line with clamps and main leads cleat to the table top.
- Connect the cable to the LED lamp with a connector.

4.12 Assembling the thread guide and take-up lever guard

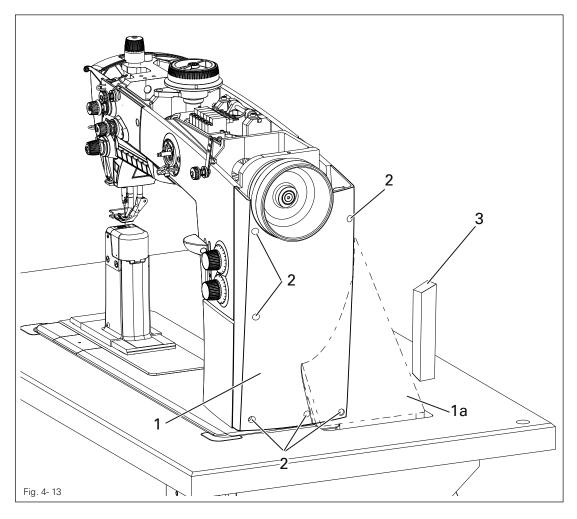


- Remove face plate 1 and arm cover 2 (screws 3).
- Adjust thread guide 4 (screw 5) as shown in Fig. 4 12.
- Insert thread guide 6 in hole 7, and fasten with nut 8 from below.
- Attach take-up lever guard 9 with bolts 10 (M4 x 10) and nuts 11 to arm cover 2.



Leave face plate and arm cover unscrewed for the next assembly steps.

4.13 Assembling the top V-belt guard and sewing head support

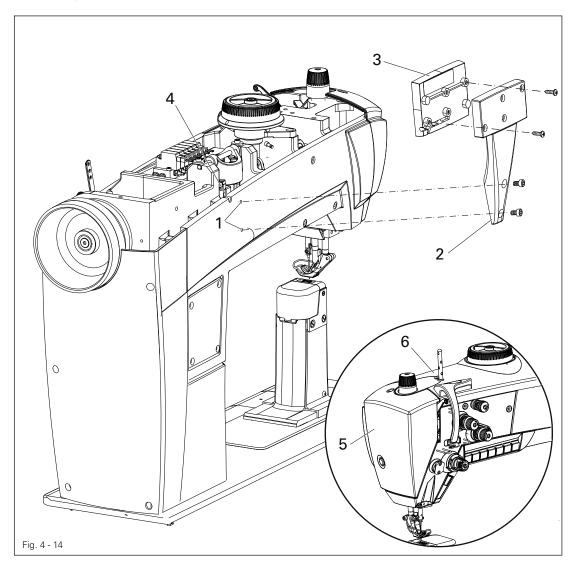


- Attach guard belt 1 (for machines with transmission motor add protector 1a) with screws 2.
- Insert sewing head support 3 into the hole in the table top.



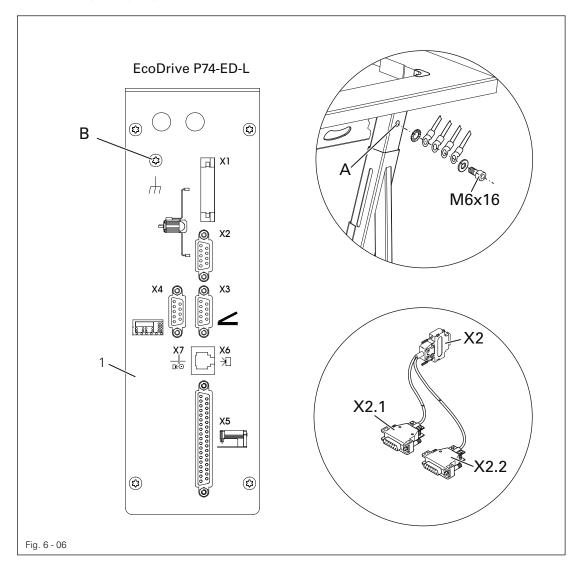
Do not operate the machine with support 3! Danger from top-heavy sewing head! Machine cannot fall over when tilted backwards!

4.14 Mounting the control panel



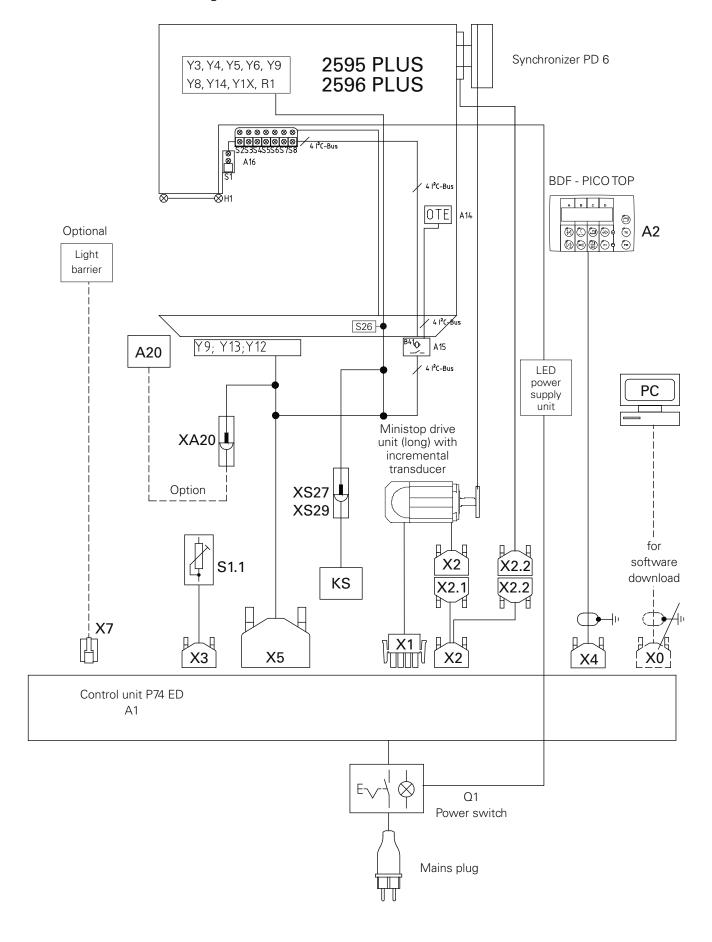
- Fasten the control panel bracket 2 to the threaded holes 1 with two screws M5 x 12.
- Attach control panel 3 to bracket 2 with two screws 5 x 10.
- Lead the control panel cable through hole 4 in the case.
- Connect the control panel plug with the connector provided for the control panel in the arm of the machine.
- Reattach face plate 5 and arm cover 6.

4.15 Connecting the plug-in connections and earth cables

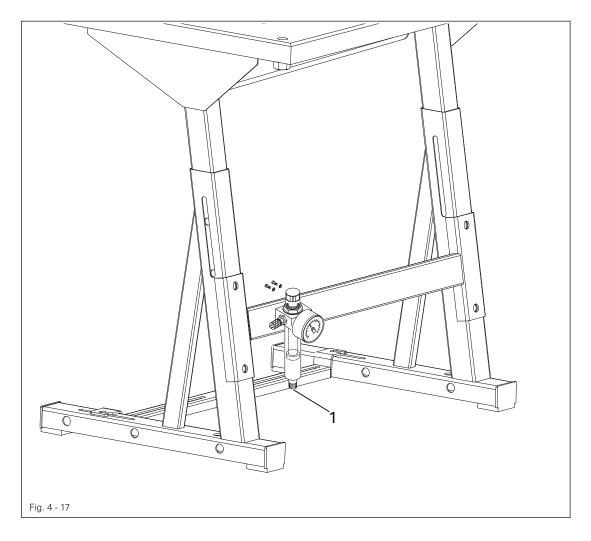


- Connect all plugs as labelled on the control box 1
- In the case of control unit EcoDrive P74 ED-L the adapter cable X2 is to be connected to socket X2. Plug X2.1 is to be connected to the motor and plug X2.2. to the synchronizer.
- The following ground cables must be attached in order to discharge static electricity.
- Connect the earth cable from the superstructure (480 mm)to the earthing connection A.
- Join earthing connection A andearthing connection B with the earth cable (700 or 100 mm).
- Connect the earthing connection on the motor base with earthing connection A with the earth cable (700 mm)
- On control P74 ED-L connect main switch and earthing connection A with the earth cable (500 mm).
- Fasten the earth cable from plug X1 to earth point B.

4.16 Block diagram PFAFF 2595/96 PLUS with EcoDrive P74 ED-L



4.17 Mounting / connecting the maintenance unit



- Attach maintenance unit 1 to the stand with two screws M6 x 25.
- Connect the maintenance unit to the machine's pneumatic tube.



To ensure the perfect functioning of all pneumatic devices, there must be a supply system pressure of between 8 and 10 bar.

The operating pressure is 6 bar (also see Chapter 9 Care and Maintenance of the Service Manual).

5 Commissioning



Before commissioning the machine, it must be thoroughly cleaned and then oiled., see chapter **9 Care and maintenance** in the instruction manual.

- Check the machine, particularly its electrical wiring and pneumatic tube connections, for any damage.
- Have skilled personnel check if the machine can be operated with the available mains voltage.



Do not operate the machine if there is any discrepancy.



The machine may only be connected to an earthed socket!

5.01 Switching the machine on/off

• Switch the machine on (see Chapter 7.01, On/off switch in the instruction manual).







PFAFF Industriesysteme und Maschinen AG

Hans-Geiger-Str. 12 - IG Nord D-67661 Kaiserslautern

Phone: +49-6301 3205 - 0
Fax: +49-6301 3205 1386
E-mail: info@pfaff-industrial.com

Hotlines:

Technical service: +49-175/2243-101
Application consultance: +49-175/2243-102
Spare-parts hotline: +49-175/2243-103

Printed in Germany