

# 281

# **Assembly Manual**

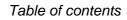
N514 Fitting Apparatus for 281 E66/20 Sewing Equipment

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# 1 Components in the parts set

Check whether the scope of delivery for parts set 0281 590134 is correct prior to attaching the fitting apparatus.

Material number	Quantity	Description		
0014 000140	1	Spring (throat plate slide)		
0211 000256	2	Pan-head screw (throat plate slide)		
0251 GS0554	2	Screw (fastening on base plate)		
0570 001847	1	Blanking plug		
0744 009183	2	Т-ріесе		
0975 417340	2	Socket		
9203 003958	2	Cheese-head screw (air distribution on angle piece)		
9204 200517	2	Pan-head screw		
9207 170257	2	Screw (magnet valve on table plate)		
9710 061200	1	Magnet valve		
9710 900031	1	Connection plate		
9710 920011	2	Throttle valve		
9710 982003	1	Silencer		
9731 005004	1	Hose		
9770 281001	1	Pneumatics diagram		
9780 000108	1	Maintenance unit		
9790 030030	1	Y-connection piece		
9790 101010	2	L swivel-type screw fitting		
9790 200001	1	Screw connection		
9790 201000	4	Screw connection		
9792 302020	4	Sealing ring		
9840 121002	5	Cable tie		
9870 281004	1	Cable set		
N514 000002	1	Apparatus		
N514 000005	1	Slide (throat plate slide)		
N514 000021	1	Angle piece		
9203 003657 2		Screw (fastening on base plate)		



## 2 Assembly manual

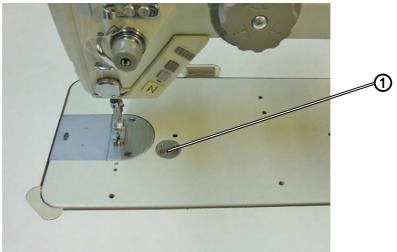
	DANGER
	Danger of life-threatening electric shock
4	The fitting apparatus may only be attached by a trained specialist.
	Switch off the machine and disconnect the power plug before you attach the fitting apparatus.
	Make sure the power plug cannot be accidentally plugged back in.

## Prerequisites for attachment

- Switch off the machine.
- Remove the sewing equipment used up until now away from the machine and attach the 281 E66 sewing equipment.
- Cut the hoses to size in accordance with the pneumatics diagram in D 3 Appendix, p. 14, interlock the Y hose piece.

## 2.1 Screwing the fitting apparatus onto the base plate

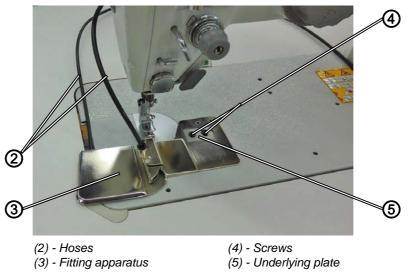
Figure 1: Base plate prior to attachment of fitting apparatus



(1) - Holes in the thread insert



Figure 2: Attached fitting apparatus



- 1. Switch off the machine.
- 2. Place the hoses (2) (top and bottom) onto the fitting apparatus (3).
- 3. Place the fitting apparatus (3) with the elongated hole onto the holes (1) in the base plate.
- 4. Place the underlying plate (5) onto the holes (1).
- 5. Fix the underlying plate (5) and fitting apparatus (3) into the holes (1) using two screws (4).
- 6. Adjustment of the fitting apparatus (3) is possible according to individual requirements via the elongated hole in X/Y direction.

Figure 3: Attached fitting apparatus in detail





## 2.2 Laying the hoses

## WARNING



Crushing injuries due to the heavy machine

Always use both hands to tilt the machine. Do not allow the machine to fall down!

## ATTENTION

#### Damage to property due to the hose being crushed

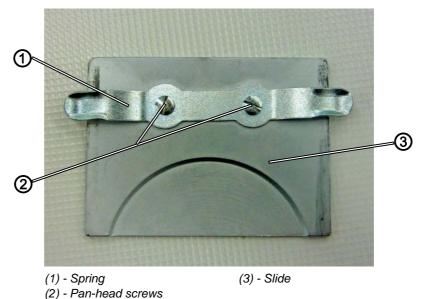
An incorrectly laid hose could get crushed and lose its functionality as a result.

Lay the hose such that it does not get crushed.

The hose supplying air to the fitting apparatus from below has to be laid.

#### Prerequisite: Fit the throat plate slide

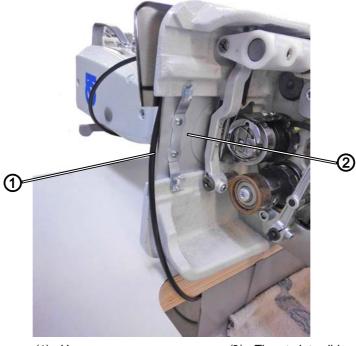
Figure 4: Throat plate slide fitted



Fix the spring (1) on the slide (3) using the two pan-head screws (2).



Figure 5: Laying the hose



(1) - Hose

(2) - Throat plate slide

This is how you lay the hose:

- 1. Tilt the machine.
- 2. Exchange the throat plate slide (2).
- 3. Lay the hose (1) through the gap and under the machine, as illustrated.
- 4. Erect the machine again.

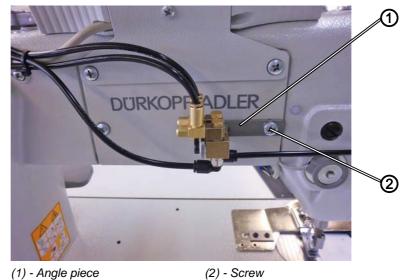
Figure 6: Attached fitting apparatus





## 2.3 Attaching air distribution

Figure 7: Fitting the air distribution



- 1. Unscrew the screw (2) to the right, below the control panel on the rear side of the machine.
- 2. Position the angle piece (1) over the hole and fix it in place using the screw (2).

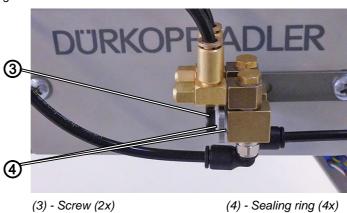
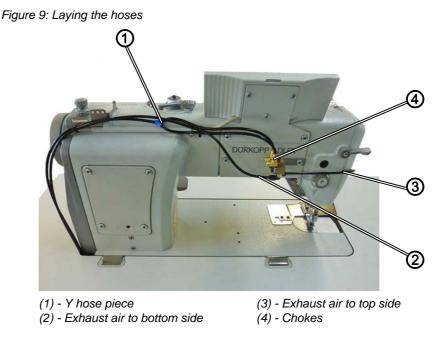


Figure 8: Air distribution in detail

3. Screw the air distribution onto the angle piece (1) using two screws (3)
- in doing so, apply two sealing rings (4) respectively.



## 2.4 Connecting the hoses

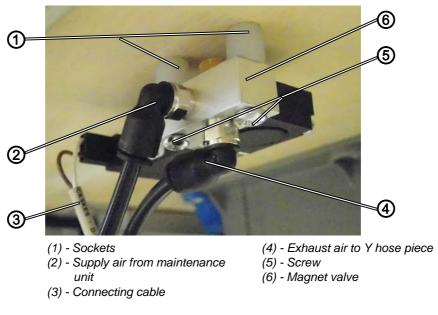


- 1. Fit both ends of the Y hose piece (1) from above and onto the chokes (4).
- $\clubsuit$  The supply air is established.
- 2. Insert the hose (3) coming from the top side of the fitting apparatus from below and into the rear screw connection.
- 3. Insert the hose (2) coming from the bottom side of the fitting apparatus from below and into the front screw connection.
- 4. Fix the hoses in place using the supplied cable ties.



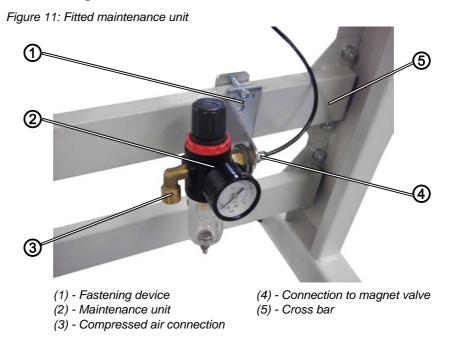
## 2.5 Attaching the magnet valve

Figure 10: Magnet valve fitted under the table plate



- 1. Fix the magnet valve (6) in place under the table plate using two sockets (1) and two screws (5).
- 2. Insert the end piece of the Y hose piece (4) into the lower screw connection.
- 3. Insert the hose from the maintenance unit (2) into the side screw connection.





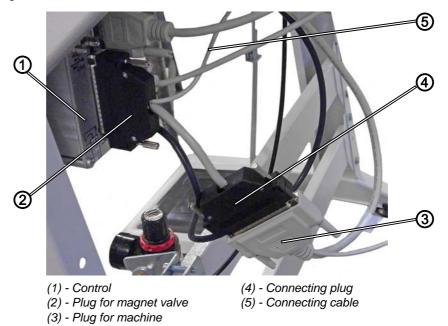
#### 2.6 Fitting the maintenance unit

- 1. Apply the fastening device (1) for the maintenance unit to a cross bar (5) of the table frame.
- 2. Fix the maintenance unit (2) in place on the cross bar (5) using two screws.
- 3. Insert the hose from the side screw connection for the magnet valve from the right and into the maintenance unit screw connection (4).
- 4. Connect the maintenance unit (2) to the compressed air supply via the compressed air connection (3).



#### 2.7 Connecting up the magnet valve to the control

Figure 12: Connection to the control



- 1. Switch off the machine.
- 2. Pull the plug for the machine (3) from the control (1).
- The machine is no longer connected to the control (1).
- 3. Insert the plug for the magnet valve (2) into the control (1).
- $\clubsuit$  The magnet valve is connected to the control (1).
- 4. Connect the connecting plug (4) for the magnet valve to the plug for the machine (3).
- ✤ The machine is connected to the control (1) again.
- 5. Activate the parameters for the control (1) to achieve the required sewing result.

How you activate the parameters is described in the Departing manual for DAC basic/classic, Part II, Class 281.

#### **Required sewing result**

Both parameters, thus *Needle cooling* and *Needle cooling with sewing foot lifter* have to be activated. Otherwise, the required sewing result cannot be achieved appropriately.



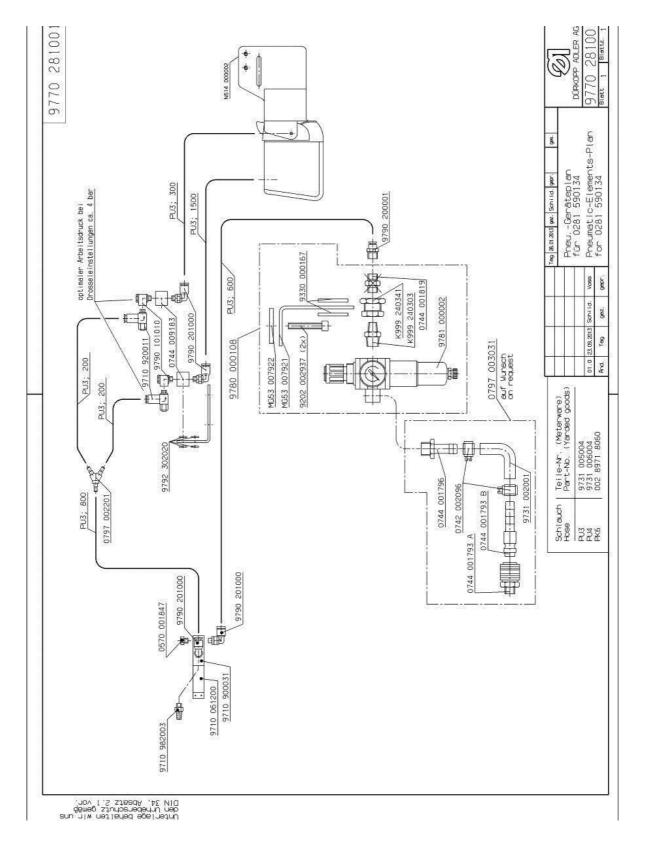
#### Relevant parameters:

Е	к	Ρ	Min	Max	Preset	Unit	Description
Needle cooling (user level)							
0	13	00	0	1	0	-	Needle cooling 0 = Off 1 = On
Needle cooling (technician level)							
t	13	03	0	1	0	-	Needle cooling with sewing foot lifter 0 = No 1 = Yes



## 3 Appendix

Figure 13: Pneumatics diagram





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