



580/581

## Additional Instructions

Assembling the upper gimp guide

**IMPORTANT**  
**READ CAREFULLY BEFORE USE**  
**KEEP FOR FUTURE REFERENCE**

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## 1 General information

Subclasses 559-151, 580-151 and 581-151 can be retrofitted with an upper gimp guide.

### Components of the kit

Check whether the scope of delivery for kit 0580 590804 is correct prior to installation.

Part number	Quantity	Description
0249 000136	1	Thread guide
0558 000223	1	Gimp guide
0579 110130	1	Gimp guider, flat
0580 590904	1	Guide plate (preinstalled)
0580 590930	1	Bracket
0580 590940	1	Bracket
9202 001637	1	Cylinder-head bolt M3x4
9202 001667	1	Cylinder-head bolt M3x8
9204 101677	2	Countersunk pan head screw M4x12
9204 201657	1	Pan-head screw M4x8
9204 201757	2	Pan-head screw M4x30
9330 900077	1	Washer A 3.2
9840 120025	2	Mounting clip
9840 121001	5	Cable tie
0699 979265	1	0.70 m hose PK2 1.6 LW x 0.8
9731 005004	1	1.50 m hose PK3, 2.7 LW x 0.65
0999 240408	1	Y-connection piece
9790 000220	1	Plug nipple
0791 580705 EN	1	Additional Instructions



### Information

Assembling the upper gimp guide requires that you use the needle thread pre-tensioner.

The needle thread pre-tensioner is composed of the following parts:

- Tension disk (part number 0558 000059 A)
  - Tension spring (part number 0558 000058 A)
  - Sleeve (part number 0558 000061 A)
  - Washer (part number 0558 000061 B)
  - Cylinder-head bolt (part number 0558 000060 A)
-

## 2 Assembly

### DANGER



#### **Risk of death from electric shock!**

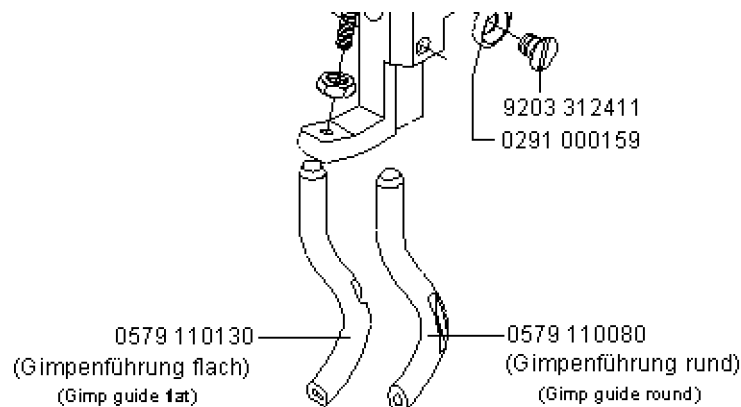
Unprotected contact with electricity can result in serious injuries or death.

The gimp guide may **ONLY** be upgraded by qualified specialists.  
Switch off the machine and disconnect the power plug before making changes to the gearbox cover.  
Ensure the power plug cannot be unintentionally reinserted.

### 2.1 Gimp guide

The gimp guide (round) is pre-fitted as standard. If the flat gimp is being used, this must be replaced with the round gimp.

*Fig. 1: Gimp guide*



#### **Order**

Prerequisites for upgrade:

- Remove finger protection with bracket.
- Move the machine upper section to the rear

### 2.1.1 Assembling the gimp guide

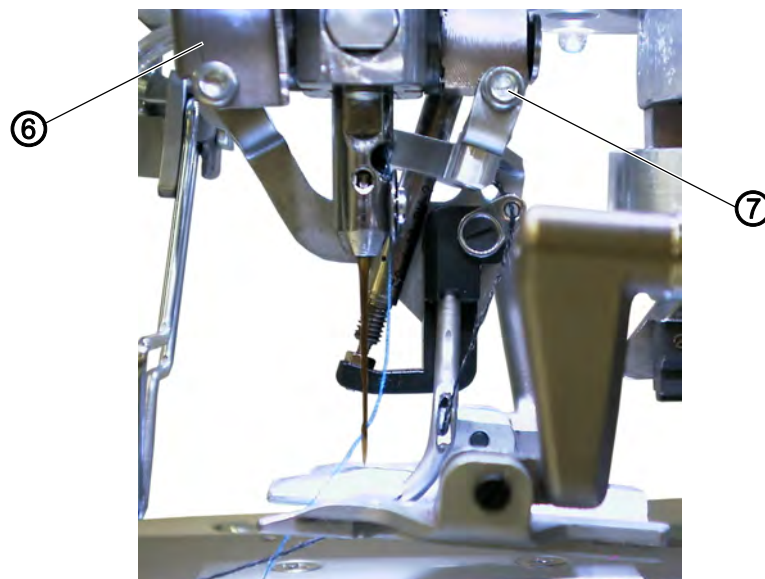
Fig. 2: Assembling the gimp guide (1)



- |              |            |
|--------------|------------|
| (1) - Screw  | (4) - Hose |
| (2) - Washer | (5) - Clip |
| (3) - Washer |            |

1. Connect hose PK2 (4) with the cylinder (plug it in).
2. Tighten complete guide plate using washer (3), clip (5), washer (2) and screw (1).

Fig. 3: Assembling the gimp guide (2)

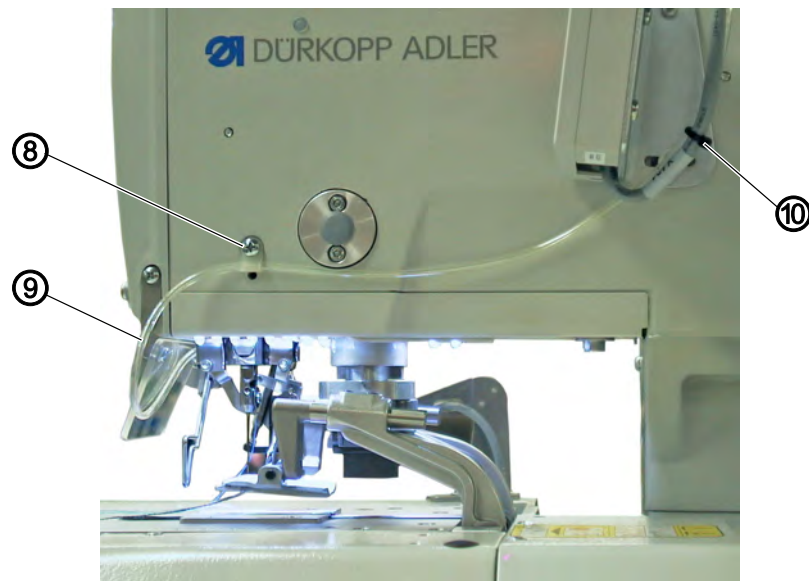


- |             |             |
|-------------|-------------|
| (6) - Plate | (7) - Screw |
|-------------|-------------|

3. Tighten screw (7).
4. Dismantle the plate (6) and assemble the new plate (0580 590930).



Fig. 4: Assembling the gimp guide (3)



(8) - Mounting clip  
(9) - Hose

(10) - Cable tie

5. Tighten hose (9) loosely on the upper bore hole with the mounting clip (8).

Make a loop in the hose by turning the sewing mechanism 400 ° counter-clockwise. This loop is required for trouble-free operation (rotational movement of sewing mechanism).

6. Tighten the mounting clip (8).
7. Unscrew the tension cover.

### NOTICE

#### **Property damage may occur!**

Possible damage to the hose.

The hose may not touch any moving parts.

8. Lay the hose (9) below and behind the control panel along the cable and tie with a cable tie (10).

Fig. 5: Assembling the gimp guide (4)



(11) - Cable tie  
(12) - Plug nipple

(13) - Hose  
(14) - Hose

9. Cut off the hose, insert the plug nipple (12) and connect with the black hose (13) (PK3).
10. Lay hose (13) along hose (14) down through the machine to the magnet valve block.
11. Secure with two more cable ties (11).
12. Screw the tension cover on again.

### 2.1.2 Connecting the magnet valve block (559/580)

Fig. 6: Connecting the magnet valve block (559/580)

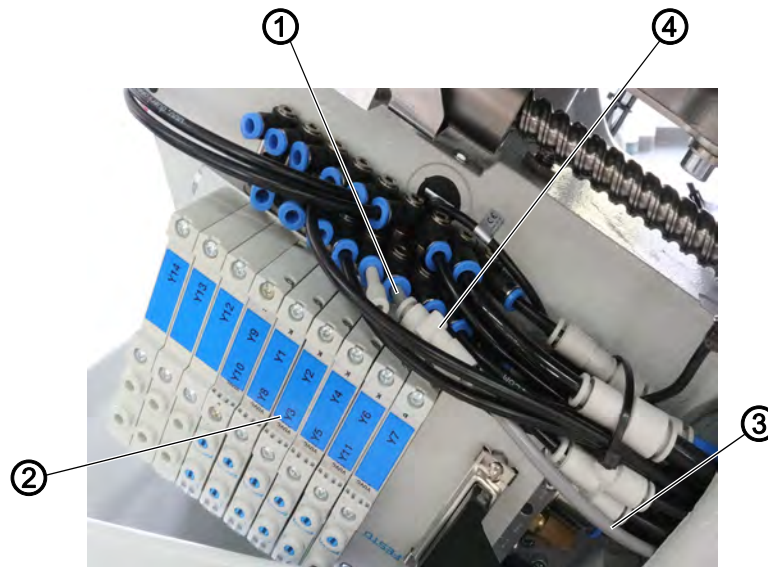


- |                       |                            |
|-----------------------|----------------------------|
| (1) - Hose            | (3) - Y-plug-in connection |
| (2) - Magnet valve Y3 | (4) - Hose                 |

1. Make a cut through hose (1) of magnet valve **Y3** (2) (third valve from left for the cloth clamp closing cylinder).
2. Insert the Y-plug-in connection (3) into hose (1) and connect again to the cut hose (1).
3. Cut hose (4) so it is long enough to be able to be connected with Y-plug-in connection (3).
  - Install the hoses so that no contact with moving parts is possible
  - Check the connections are secure

### 2.1.3 Connecting the magnet valve block (581)

Fig. 7: Connecting the magnet valve block (581)



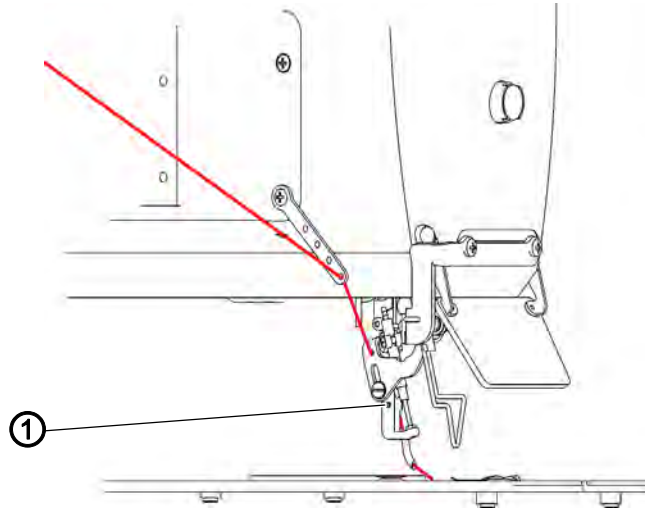
- |                       |                            |
|-----------------------|----------------------------|
| (1) - Hose            | (3) - Hose                 |
| (2) - Magnet valve Y3 | (4) - Y-plug-in connection |

1. Make a cut through hose (1) of magnet valve **Y3** (2) (fourth valve from right for the cloth clamp closing cylinder).
2. Insert the Y-plug-in connection (4) into hose (1) and connect again to the cut hose (1).
3. Cut hose (3) so it is long enough to be able to be connected with Y-plug-in connection (4).
  - Install the hoses so that no contact with moving parts is possible
  - Check the connections are secure

## 2.2 Setting the gimp guide

The upper gimp guide should be located in front of the needle bar, as close and as central as possible, but not so it collides with it.

Fig. 8: Setting the gimp guide



(1) - Threaded pin

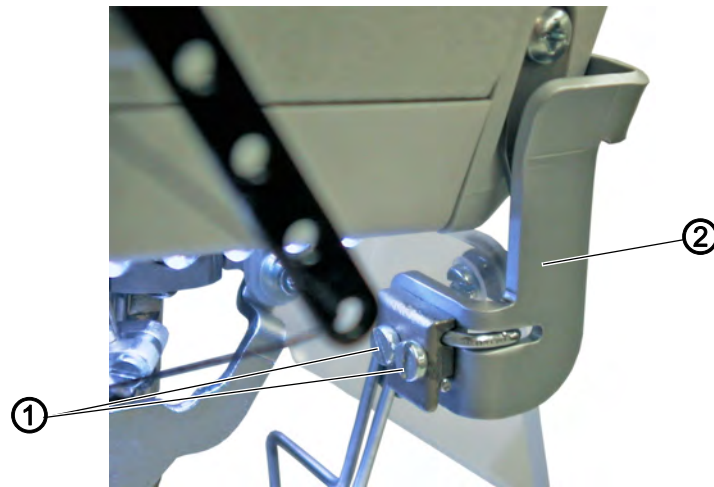


To set the gimp guide:

1. Slide the gimp guide down with the machine switched off.
2. Loosen the threaded pin (1).
3. Adjust the setting.
4. Tighten the threaded pin (1) again.

### 2.3 Assembling the finger protection and thread guides

Fig. 9: Assembling the finger protection and thread guides (1)



(1) - Screws

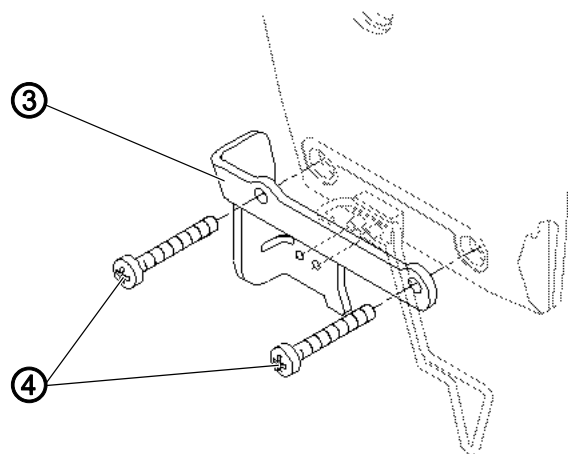
(2) - Retaining bracket



To assemble finger protection and thread guides:

1. Unscrew old finger protection and old bracket.
2. Screw into the new retaining bracket (2) with the screws (1).

Fig. 10: Assembling the finger protection and thread guides (2)



(3) - Retaining bracket

(4) - Screws

3. Tighten the retaining bracket (3) onto the top cover with the screws (4).

Fig. 11: Assembling the finger protection and thread guides (3)



(5) - Thread guides

4. Tighten the thread guides (5) on the left side of the sewing head.

## 2.4 Threading the gimp thread

Thread the gimp thread as shown in the figures.

Fig. 12: Threading the gimp thread (1)

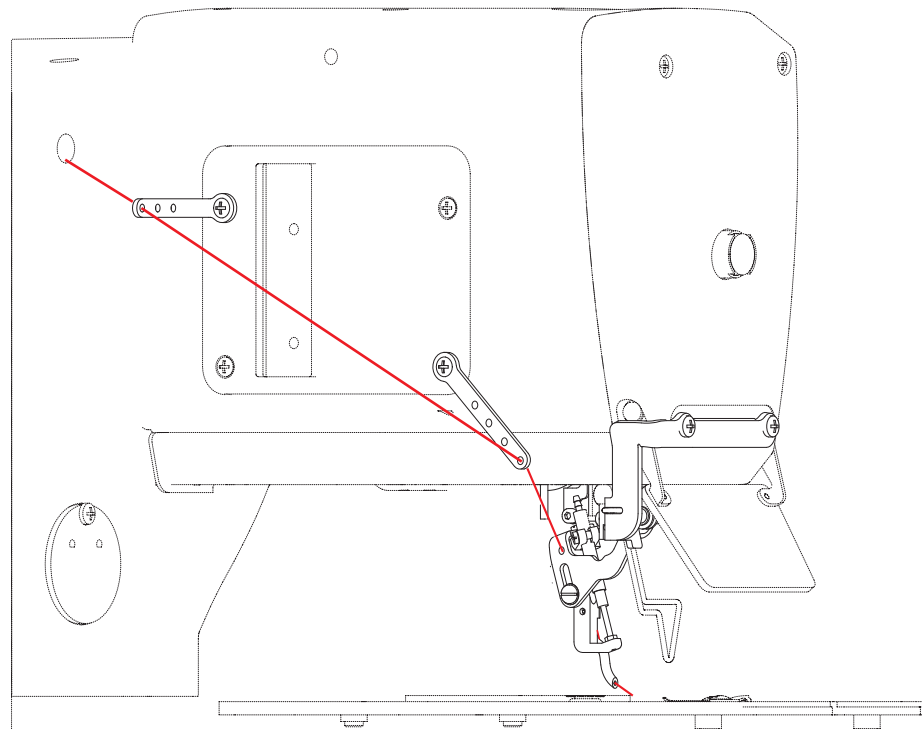
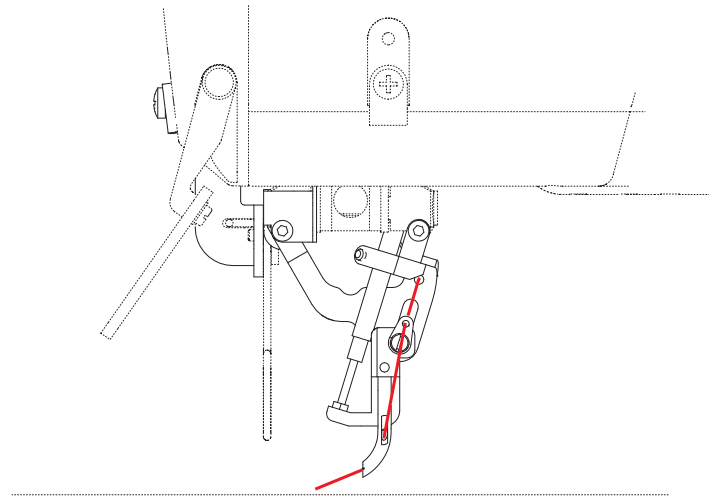



Fig. 13: Threading the gimp thread (2)



## 2.5 Checking

1. Switch on the main switch.
2. Activate technician level.
3. Select the test program
4. Confirm the test function with **OK**.
5. Confirm the multi-test with **OK**.
6. Select initial test, confirm with **OK**.
7. Insert the material to determine the correct height.
8. Select Y03, close the clamping plates, confirm with **OK**.
9. Select Y04, spreading takes place, confirm with **OK**.
10. The gimp guide moves down automatically.
11. Perform function test.

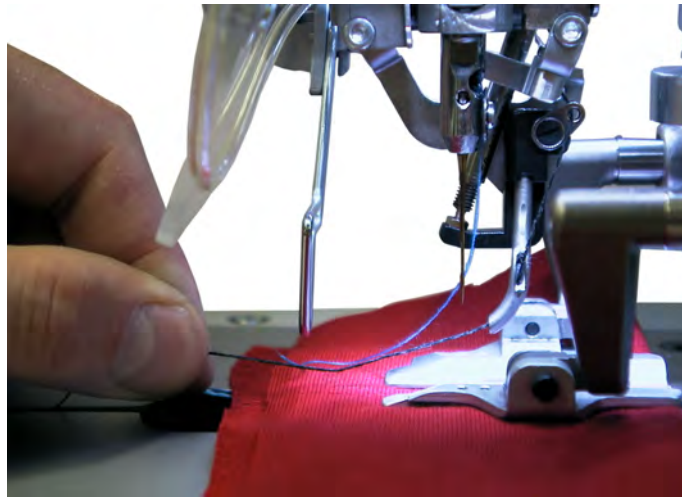
For a detailed description of the function sequence, see  *Operating Instructions*.



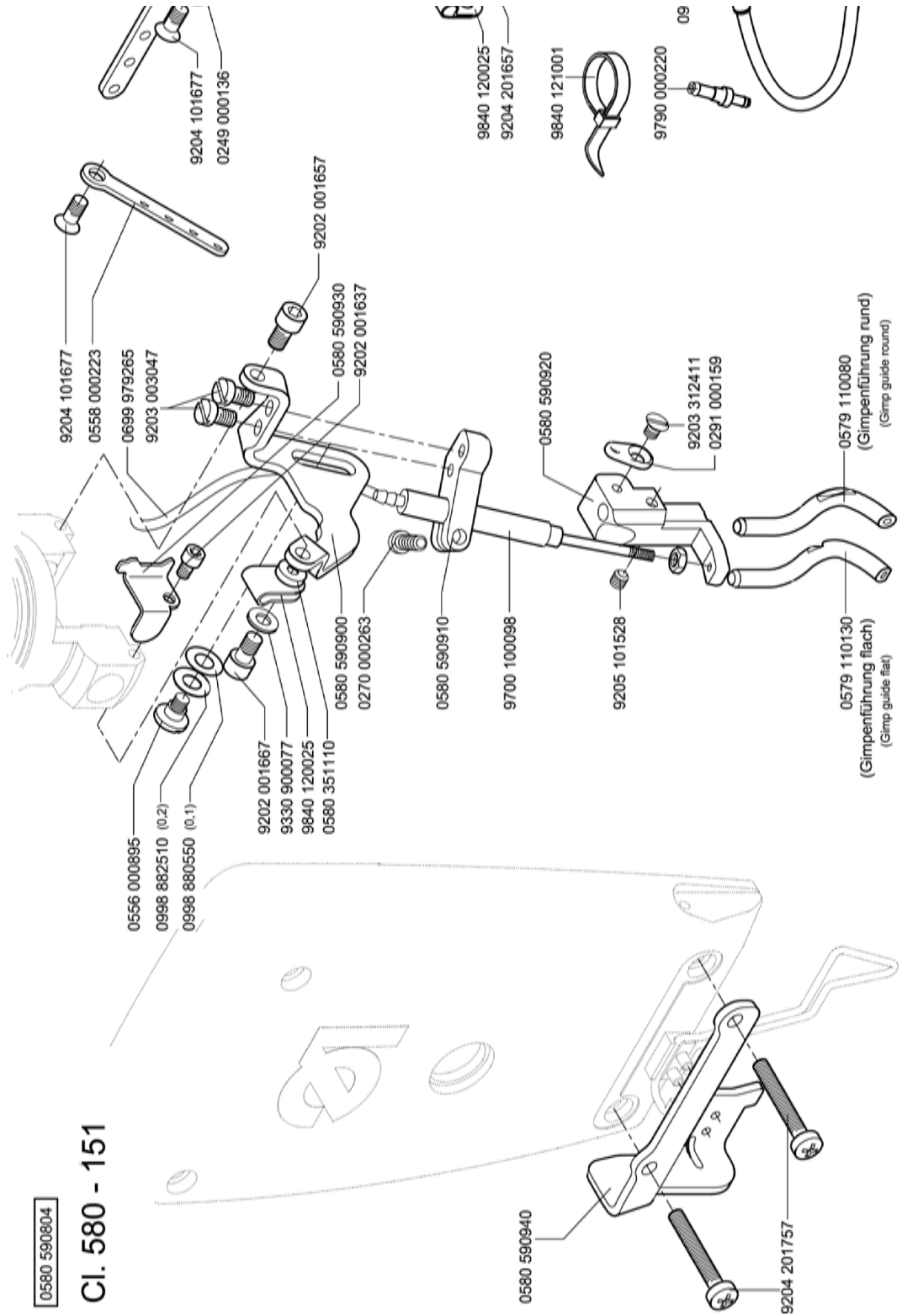


**Information**

Each time you make a stitch, pull the gimp thread (1) towards you so that it is stitched over on both sides.



### 3 Appendix







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