DÜRKOPP ADLER

# 1767

# Additional Instructions

## Remaining thread monitor

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

# 1 General information

## 1.1 Components of the kit 1767 590064

This kit is intended for the 1-needle machine.

Check whether the scope of delivery for kit 1767 590064 is correct prior to installation.

| Part number | Quantity | Description |
|---|---|---|
| 0667 155824 | 1 | Remaining thread monitor carrier |
| 9202 002077 | 1 | Cylinder-head bolt |
| 0699 979265 | 1 | Hose 0.9 m |
| 9840 120106 | 2 | Cable holder |
| 9815 925002 | 1 | Light barrier |
| 9850 867003 | 1 | Circuit board |
| 0667 155840 | 1 | Holder |
| 9204 201667 | 8 | Pan-head screw |
| 9830 501010 | 4 | Spacer |
| 0999 240389 | 1 | Hose connector |
| 0667 155930 | 1 | Cover |
| 9840 121002 | 3 | Cable tie |
| 9840 120025 | 2 | Mounting clip |
| 0867 150560 | 3 | Bobbin |
| 0867 150170 | 1 | Compression spring |
| 9710 063412 | 1 | Magnet valve |
| 0570 001847 | 1 | Blanking plug |
| 9330 000067 | 2 | Washer |
| 9202 001737 | 2 | Cylinder-head bolt |
| 9202 001757 | 2 | Cylinder-head bolt |
| 9202 001777 | 2 | Cylinder-head bolt |
| 9790 060101 | 1 | Connection |
| 0999 240408 | 1 | Y-plug-in connection |
| 9870 001203 | 1 | Cable |
| 9870 001204 | 1 | Cable |
| 7911 767701 EN | 1 | Additional Instructions |

## 1.2 Components of the kit 1767 590074

This kit is intended for the 2-needle machine.

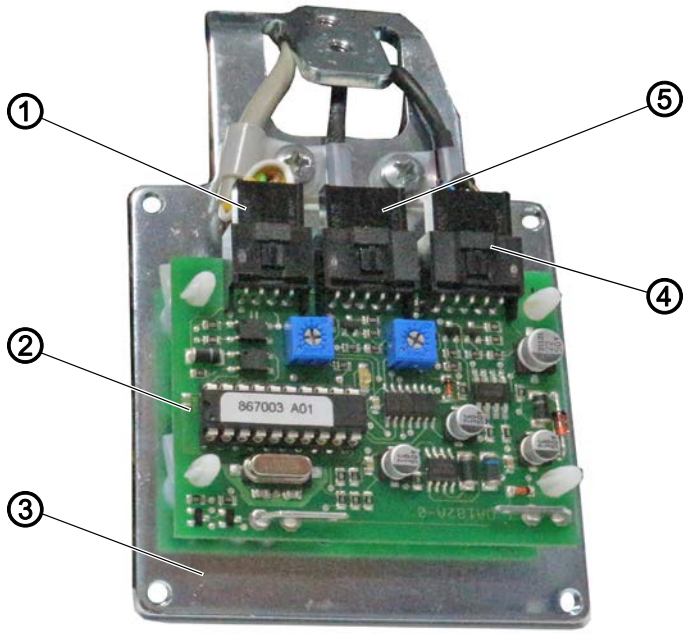
Check whether the scope of delivery for kit 1767 590074 is correct prior to installation.

| Part number | Quantity | Description |
|---|---|---|
| 0667 155824 | 2 | Remaining thread monitor carrier |
| 9202 002077 | 2 | Cylinder-head bolt |
| 0699 979265 | 1 | Hose 0.9 m |
| 9840 120106 | 2 | Cable holder |
| 9815 925002 | 2 | Light barrier |
| 9850 867003 | 1 | Circuit board |
| 0667 155840 | 2 | Holder |
| 9204 201667 | 8 | Pan-head screw |
| 9830 501010 | 4 | Spacer |
| 0999 240389 | 1 | Hose connector |
| 0667 155930 | 1 | Cover |
| 9840 121002 | 3 | Cable tie |
| 9840 120025 | 2 | Mounting clip |
| 0867 150560 | 6 | Bobbin |
| 0867 150170 | 2 | Compression spring |
| 9710 063412 | 1 | Magnet valve |
| 0570 001847 | 1 | Blanking plug |
| 9330 000067 | 2 | Washer |
| 9202 001737 | 2 | Cylinder-head bolt |
| 9202 001757 | 2 | Cylinder-head bolt |
| 9202 001777 | 2 | Cylinder-head bolt |
| 9790 060101 | 1 | Connection |
| 0999 240408 | 1 | Y-plug-in connection |
| 9870 001203 | 1 | Cable |
| 9870 001204 | 1 | Cable |
| 7911 767701 EN | 1 | Additional Instructions |

# 2 Remaining thread monitor

## 2.1 Assembling the remaining thread monitor

*Fig. 1: Assembling the remaining thread monitor (1)*

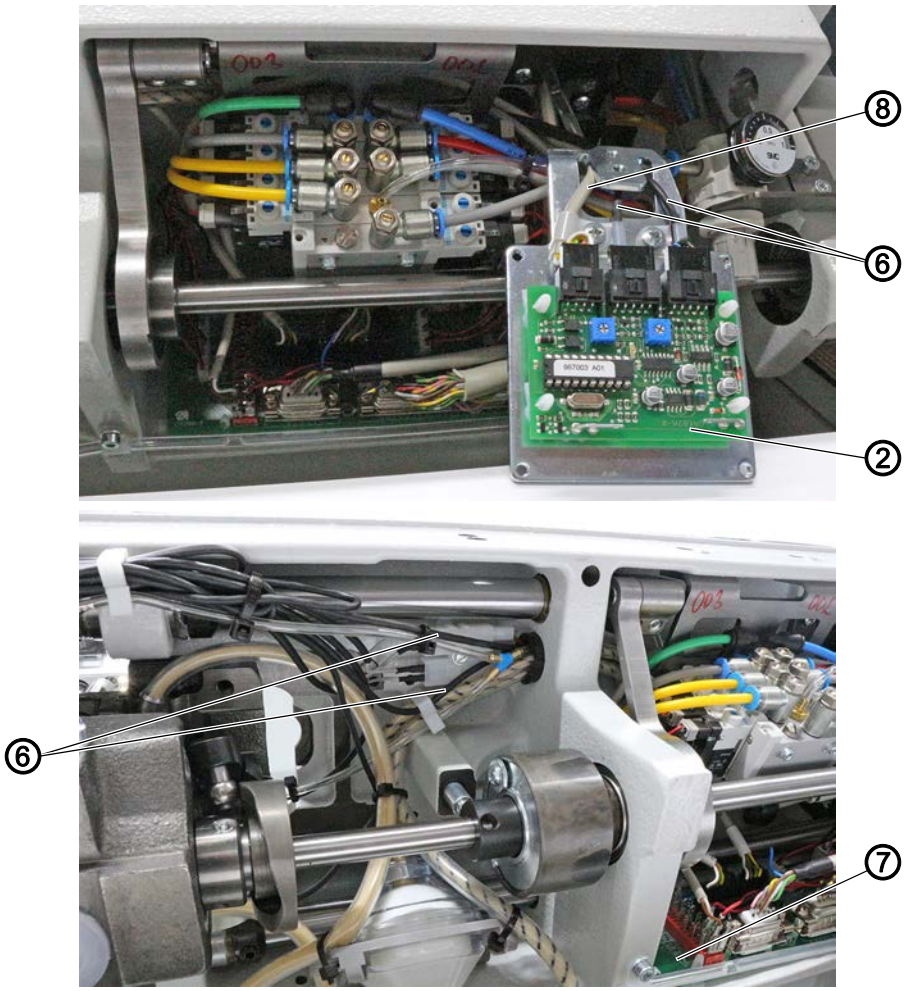



*(1) - Plug connection circuit board*
*(2) - Circuit board of remaining thread monitor*
*(3) - Plate*
*(4) - Plug connection remaining thread monitor right*
*(5) - Plug connection remaining thread monitor left*

To assemble the remaining thread monitor:

1. Tilt the machine.
2. Assemble the circuit board of the remaining thread monitor (2) with the spacers to the plate (3).
3. Connect the plug connections for the remaining thread monitor left (5) and right (4) and the plug connection for the circuit board (1) to the circuit board of the remaining thread monitor (2).

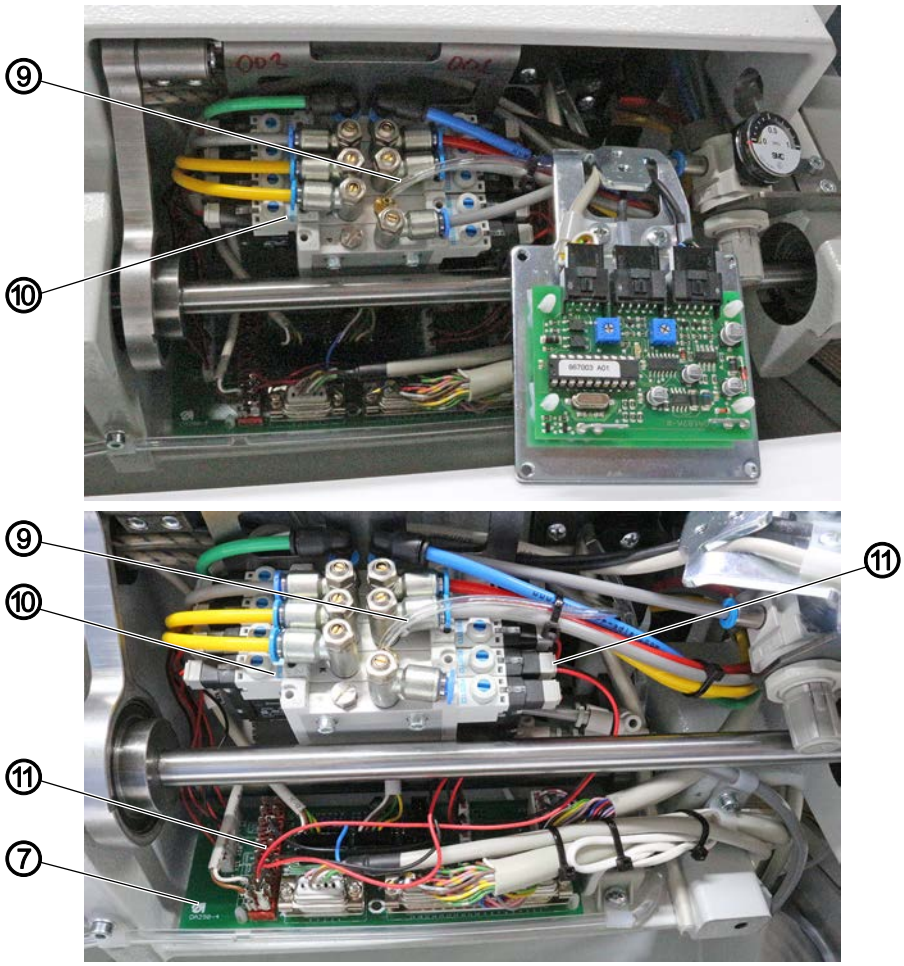
*Fig. 2: Assembling the remaining thread monitor (2)*




*(2) - Circuit board of remaining thread monitor*
*(6) - Cable*
*(7) - Circuit board*
*(8) - Cable*

4. Lay the cable (6) below the machine.
5. Lay the cable (8) into the base plate and connect it to the circuit board (7).
   - Slot **X20**

*Fig. 3: Assembling the remaining thread monitor (3)*

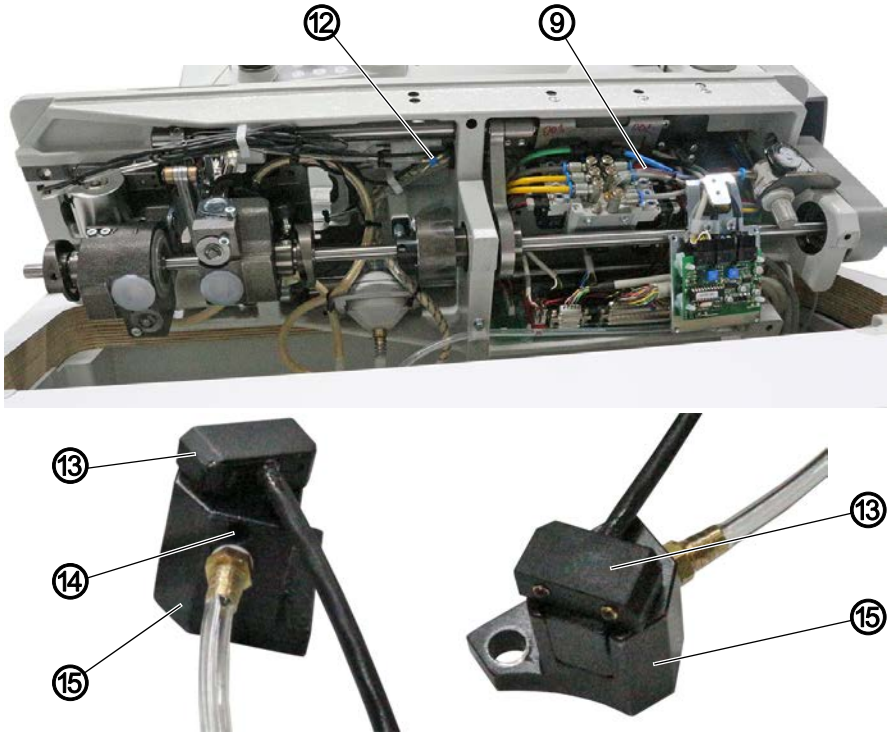



*(7) - Circuit board*
*(9) - Air hose*
*(10) - Valve block*
*(11) - Cable*

6. Connect the air hose (9) to an available valve on the valve block (10).
7. If no valve is available on the valve block (10), tighten the additional valve block included in the kit.
   Use the included Y-piece to connect the additional valve block to the supply air.
8. Connect the cable (11) of the valve used to the circuit board (7)
   - black: **+**
   - red: Function **FA**

The valve blows while the thread is being cut.
You can also select any other function you require.

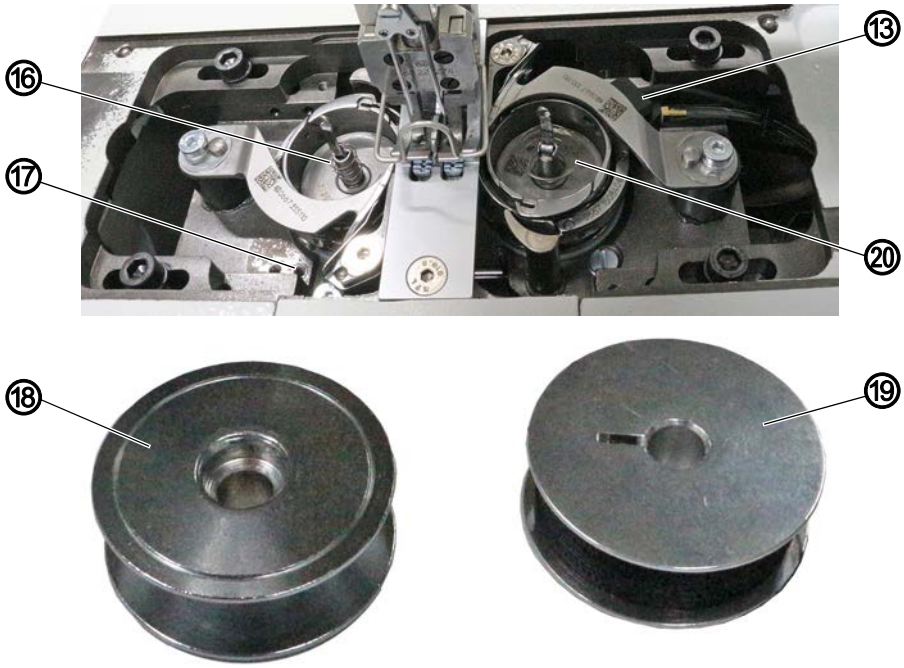
*Fig. 4: Assembling the remaining thread monitor (4)*




*(9) - Air hose*
*(12) - Y-piece*
*(13) - Remaining thread monitor*
*(14) - Screw*
*(15) - Holder*

9. Lay the air hose (9) below the machine.
10. Connect 2 additional air hoses to air hose (9) using the Y-piece (12).
11. Fasten the remaining thread monitor (13) to the holder (15) using the screw (14).
12. Connect the 2 additional air hoses to the right and the left remaining thread monitor.
    Shorten the air hoses as much as possible.

*Fig. 5: Assembling the remaining thread monitor (5)*




*(13) - Remaining thread monitor*
*(16) - New spring*
*(17) - Hole*
*(18) - New bobbin*
*(19) - Old bobbin*
*(20) - Old spring*

13. Route the remaining thread monitor (13) and the holder (15) past the hook supports.
14. Erect the machine.
15. Tighten the remaining thread monitor (13) and the holder (15) inside the hole (17) that is closer to the hook housing bottom parts.
    Make sure to assemble the residual thread monitor (13) as straight to the hook support surface as possible.
16. Replace the old springs (20) in the hook housing bottom parts with new springs (16).
    Make sure to insert the new springs (16) with the correct orientation. The narrow end must be seated at the bottom.
17. Replace the old bobbins (19) with new bobbins (18) for the remaining thread monitor.
    Make sure to insert the new bobbin (18) with the groove pointing down.
18. Tilt the machine and fix all cables properly in place using cable ties.
    Make sure that the cables do not touch or obstruct any moving parts.

**Information**

To wind the hook thread, you must place the new bobbin (18) onto the winder with the groove pointing towards the machine.

## 2.2 Activating the remaining thread monitor in the software

To activate the remaining thread monitor in the software:

1. Press the P button.

↳ Parameter o 06 00 appears.

2. Press the OK button.

↳ The activated function appears.

3. Use the buttons **+** and **-** to set the function 04.

↳ The remaining thread monitor is activated.

4. To save the values, press the OK button.

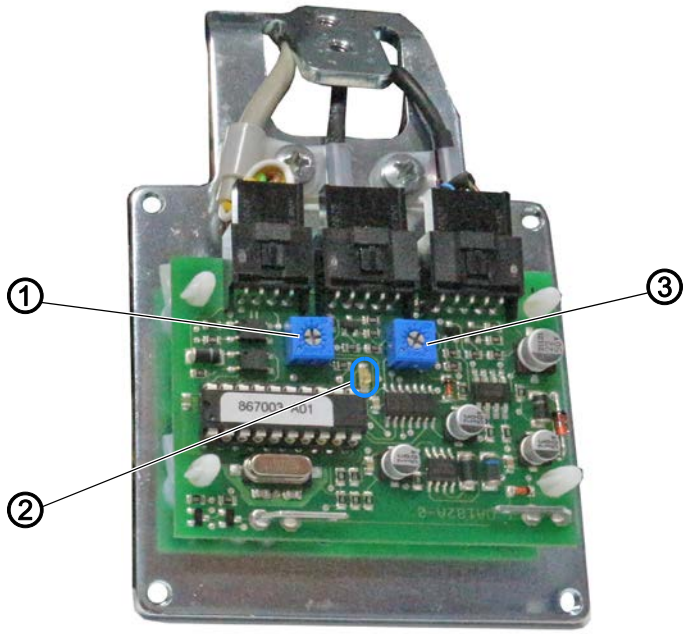
5. To exit the parameter, press the ESC button.

## 2.3 Setting the sensitivity of the remaining thread monitor

**Important**

The remaining thread monitor is delivered with predefined settings. The pre-set sensitivity may only be changed if the remaining thread monitor is not working properly.

*Fig. 6: Setting the sensitivity of the remaining thread monitor (1)*




*(1) - Potentiometer for remaining thread monitor left*
*(2) - LED*
*(3) - Potentiometer for remaining thread monitor right*

To set the sensitivity of the remaining thread monitor:

1. Tilt the machine.
2. Switch on the machine.

↳ Before the machine starts sewing, the remaining thread monitor is in setting mode.

3. Insert an empty bobbin into the hook to be set.
4. Set the hook to a position that affords the light barrier an unimpeded view of the bobbin through the slot in the hook housing.
5. Set the potentiometer for the remaining thread monitor left (1) or the potentiometer for the remaining thread monitor right (3) to the highest sensitivity by turning it clockwise.
6. Turn the bobbin until the reflective surface is detected.

↳ Die LED (2) lights up.
In setting mode, the LED (2) illuminates for one second with every reflection.

7. Turn potentiometer (1) or (3) counterclockwise to reduce the sensitivity until the reflection off the bobbin can just be detected.

*Fig. 7: Setting the sensitivity of the remaining thread monitor (2)*


*(4) - Cover*

8. Screw the cover (4) onto the circuit board of the remaining thread monitor.
9. Erect the machine.

↳ When sewing begins, the system leaves setting mode automatically.

DÜRKOPP ADLER GmbH
Potsdamer Str. 190
33719 Bielefeld
Germany
Phone: +49 (0) 521 925 00
Email: service@duerkopp-adler.com
www.duerkopp-adler.com