



867 M-TYPE

## Additional Instructions

Needle area cover interrogator

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

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## 1 General information

Fig. 1: General information (1)



(1) - Cover

This kit has been designed for CLASSIC and PREMIUM machines of the M-TYPE series.

During sewing, the cover (1) in front of the needle is at its regular position (see figure). When the cover (1) is swiveled to the side, e.g. during a needle change, the proximity switch will detect this condition and lock the machine. On CLASSIC machines, the display will show the message *3109*, while the display on PREMIUM machines will show the message *Service Stop 9922*. Sewing is not possible during this time. The machine will remain locked even if you press the pedal forward (position 1) or press a button. This lock is an additional measure intended to prevent injuries.

### Components of the kit

Check whether the scope of delivery for kit **0867 592244/0867 592344** is correct prior to installation.

#### Kit **0867 592244 (CLASSIC)**

Part number	Quantity	Description
0667 105164	1	Head cover
H867 V93298 001	1	Mounting bracket
H867 V93298 002	1	Holder
9205 102467	1	Threaded pin
9301 102541	1	Cylinder pin
H867 V93298 005	1	Sleeve
9400 000168	1	Pressure piece

Part number	Quantity	Description
9231 000397	1	Nut
9202 042327	2	Cylinder-head bolt
9330 000087	2	Disk
1001 009243	4	Disk
0867 592290	1	Holder
0867 592250	1	Cover
9204 431657	2	Cylinder-head bolt
0867 592300	1	Mounting plate
9203 003637	2	Cylinder-head bolt
9815 710221	1	Inductive transmitter
9840 120025	1	Mounting clip
9204 201657	1	Pan-head screw

#### Kit 0867 592344 (PREMIUM)

Part number	Quantity	Description
H867 V93298 001	1	Mounting bracket
H867 V93298 002	1	Holder
9205 102467	1	Threaded pin
9301 102541	1	Cylinder-head bolt
H867 V93298 005	1	Sleeve
9400 000168	1	Pressure piece
9231 000397	1	Nut
9202 042327	2	Cylinder-head bolt
9330 000087	2	Disk
1001 009243	4	Disk
0867 592290	1	Holder
0867 592250	1	Cover
9204 431657	2	Cylinder-head bolt
0867 592300	1	Mounting plate
9203 003637	2	Cylinder-head bolt
9815 710221	1	Inductive transmitter
0798 120401	1	Cable clip



**Important**

To install the interrogator for the needle area cover on the machine, you will need another kit: Adapter **0867 592224**.

The circuit board included in the kit can accommodate up to 4 interrogator units (the needle area cover interrogator is one of them).

## 2 Setting up the needle area cover interrogator

### 2.1 Preparing assembly

#### WARNING



##### Risk of injury!

Crushing, cutting and punctures are possible.  
Do not assemble the needle area cover interrogator unless the machine is switched off.

#### NOTICE

##### Property damage may occur!

The cables may be crushed, kinked and cut.

Make sure not to guide the cables over sharp edges and moving parts and do not kink or crush the cables.



#### Order

1. Prepare assembly.
2. Assemble the needle area cover interrogator ( p. 10).
3. Connect the needle area cover interrogator ( p. 14).
4. Test functionality ( p. 19).



To prepare the assembly of the needle cover area interrogator:

#### Replacing the head cover (CLASSIC)

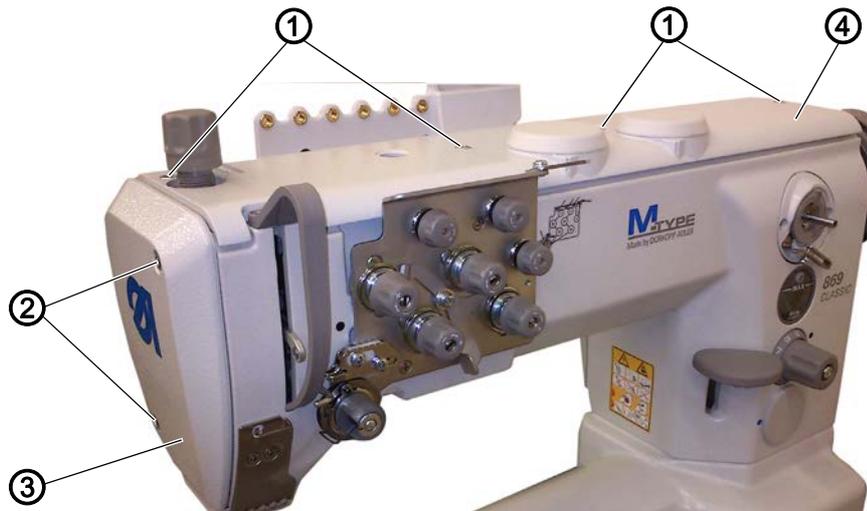


#### Information

CLASSIC machines are missing the two holes in the head cover that are needed for the assembly of the needle area cover interrogator. This is why the kit for CLASSIC machines includes a new head cover.

You do not need to replace the head cover on PREMIUM machines.

Fig. 2: Preparing assembly (1)



(1) - Screws  
(2) - Screws

(3) - Head cover (CLASSIC)  
(4) - Arm cover



1. Loosen the 2 screws (2).
2. Remove the head cover (3).
3. Tighten the new head cover using 2 screws.

#### Removing the arm cover (CLASSIC and PREMIUM)

4. Loosen the cable of the control panel (PREMIUM).
5. Loosen the screws (1).
6. Remove the arm cover (4).

#### Preparing the head cover (PREMIUM)

Fig. 3: Preparing assembly (2)



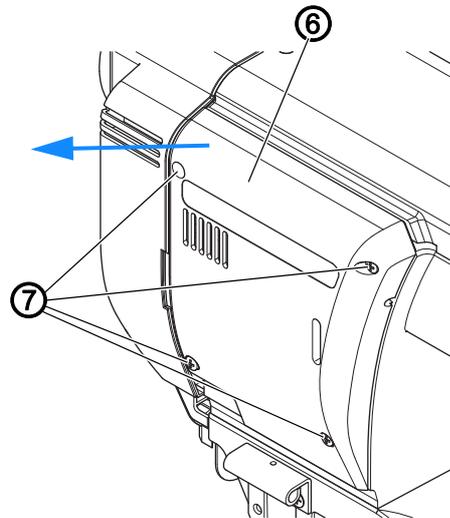
(5) - Plug



7. Take out both plugs (5) and keep them in a safe place.

### Removing the valve cover (CLASSIC and PREMIUM)

Fig. 4: Preparing assembly (3)



(6) - Valve cover

(7) - Screw



8. Loosen the screws (7).

9. Remove the valve cover (6).

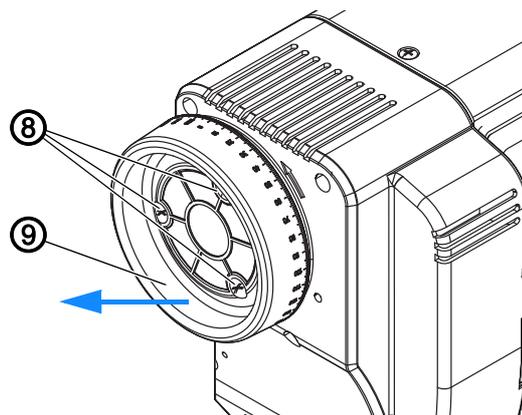


#### Information

The circuit board to which the needle area cover interrogator is connected is found behind the valve cover and behind the cover on the side, respectively, on CLASSIC and PREMIUM machines.

### Removing the handwheel (PREMIUM)

Fig. 5: Preparing assembly (4)



(8) - Screw

(9) - Handwheel

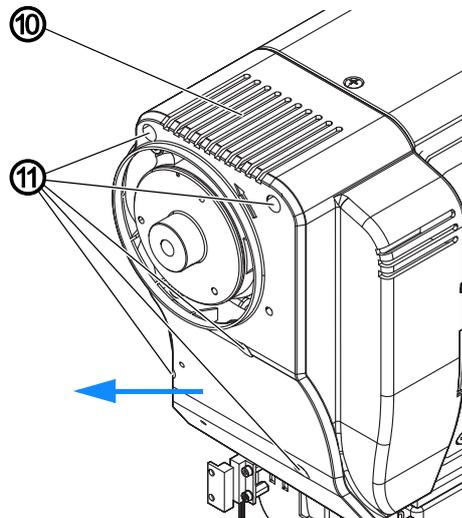


10. Loosen the screws (8).

11. Remove the handwheel (9).

## Removing the cover on the side (PREMIUM)

Fig. 6: Preparing assembly (5)



(10) - Cover on the side

(11) - Screw



12. Loosen the screws (11).

13. Remove the cover on the side (10) and set it down carefully on the tabletop next to the machine.

↙ The cover on the side (10) is still connected to the machine via the switch housed in the cover. Do not pull on the cable.

You can now assemble the needle area cover interrogator ( p. 10).

## 2.2 Assembling the needle area cover interrogator

### WARNING



#### Risk of injury!

Faulty wiring can cause the entire machine to malfunction.

Only qualified specialists may assemble the needle area cover interrogator.

Do not assemble the needle area cover interrogator unless the machine is switched off.

### NOTICE

#### Property damage may occur!

The cables may be crushed, kinked and cut.

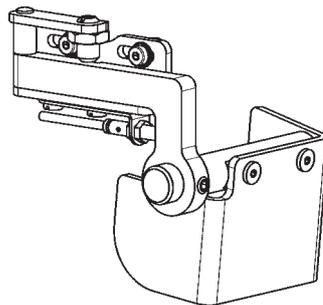
Make sure not to guide the cables over sharp edges and moving parts and do not kink or crush the cables.



#### Order

1. Prepare assembly (📖 p. 6).
2. **Assemble the needle area cover interrogator.**
3. Connect the needle area cover interrogator (📖 p. 14).
4. Test functionality (📖 p. 19).

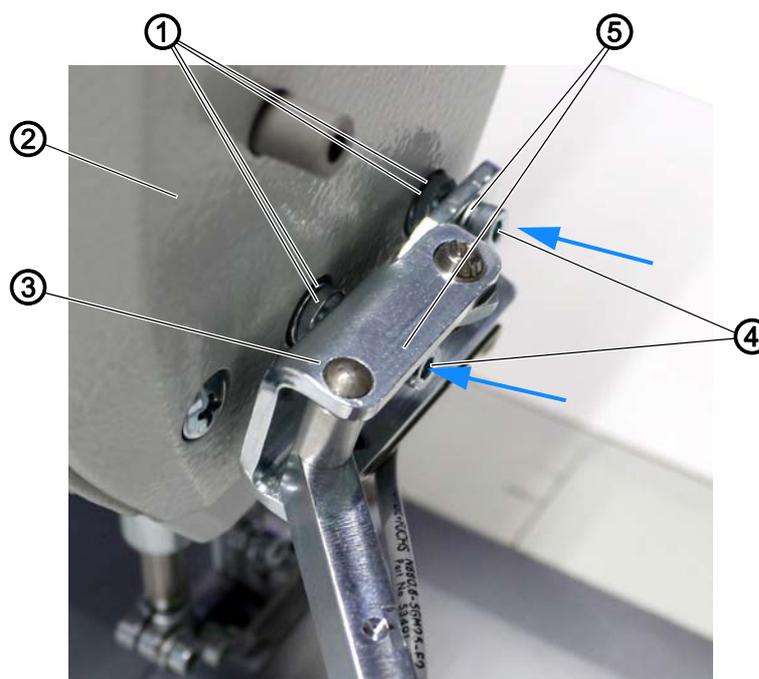
Fig. 7: Assembling the needle area cover interrogator (1)



The needle area cover interrogator ships fully pre-assembled (see figure above).

Only the parts necessary for assembling the head cover are included as loose single items.

Fig. 8: Assembling the needle area cover interrogator (2)



(1) - Disk

(2) - Head cover

(3) - Holder

(4) - Screw

(5) - Washer (not all visible)



To assemble the interrogator of the needle area cover:

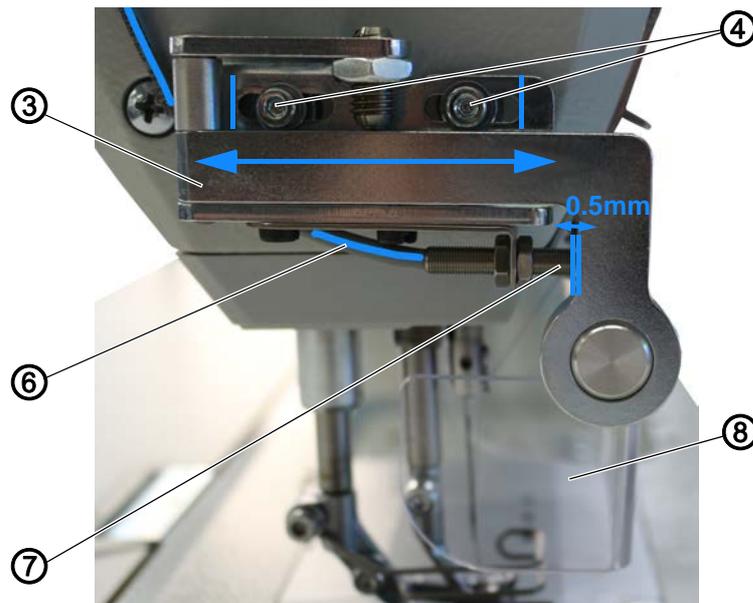
1. Assemble the holder (3) to the head cover (2) using 4 disks (1), 2 screws (4) and 2 washers (5) (see figure).



### Information

Do not tighten the screws (4) all the way yet to ensure that you can still align the needle area cover interrogator.

Fig. 9: Assembling the needle area cover interrogator (3)



(3) - Holder  
(4) - Screw  
(6) - Cable

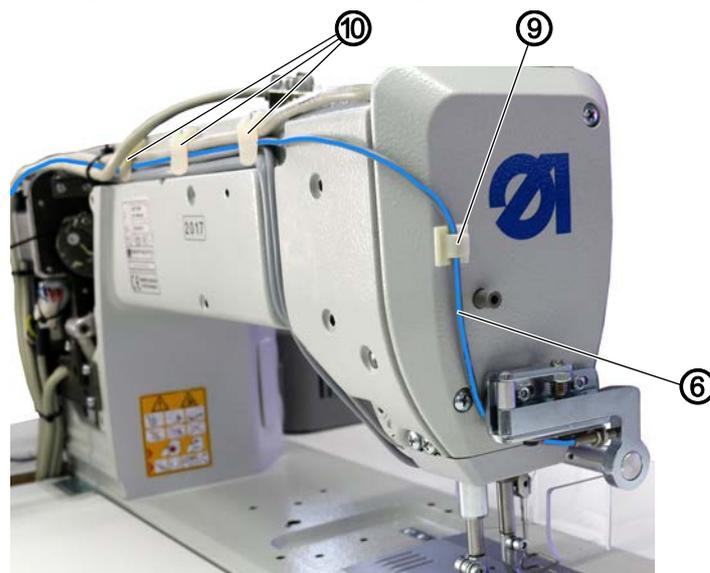
(7) - Proximity switch  
(8) - Disk



2. Align the needle area cover interrogator in such a way that it does not come into contact with any other part of the machine when swung open and closed.
3. Tighten the screws (4).
4. Carefully remove the protective film from the disk (8).
5. Check if the distance between the proximity switch (7) and the holder (3) is approx. 0.5 mm.

This distance has been preset at the factory.

Fig. 10: Assembling the needle area cover interrogator (4)



(6) - Cable  
(9) - (Adhesive) clip

(10) - Cable clamp



6. PREMIUM: Apply the adhesive clip (9) to the head cover.

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**Information**

On CLASSIC machines, a cable clamp has been tightened to the head cover at the factory.

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7. Lay the cable (6) to the circuit board by inserting it through the (adhesive) clip (9) and the cable clamps (10) and guiding it up and towards the rear.

 You have successfully assembled the needle area cover interrogator.

You can now connect the needle area cover interrogator ( p. 14).

## 2.3 Connecting the needle area cover interrogator

### WARNING



#### Risk of injury from moving parts!

Crushing, cutting and punctures are possible.

Do not connect the needle area cover interrogator unless the machine is switched off and de-energized.

Disconnect the machine from the power supply before connecting the interrogator.

### NOTICE

#### Property damage may occur!

The cables may be crushed, kinked and cut.

Make sure not to guide the cables over sharp edges and moving parts and do not kink or crush the cables.



#### Order

1. Prepare assembly (📖 p. 6).
2. Assemble the needle area cover interrogator (📖 p. 10).
- 3. Connect the needle area cover interrogator.**
4. Test functionality (📖 p. 19).



#### Information

If not yet present on the machine, the adapter (part no. **0867 592224**) must be assembled first.

The plug connection **X6 (IN)** of the circuit board **MUST ALWAYS** be connected to the machine distributor. The corresponding cable is included.

Depending on the type of machine distributor, the plug connection and setting must be established:

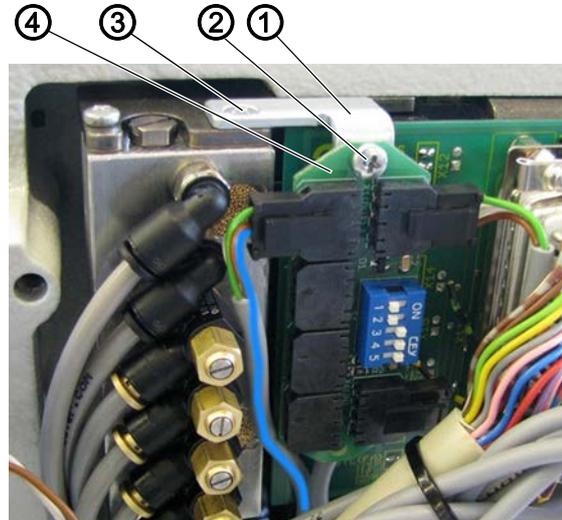
Machine distributor	Plug	Comment
9850 688001 (DA178)	X15	J1 must be open (OFF)
9850 867000 (DA174)	X26	J2 must be open (OFF)
9850 867020 (DA289)	X29	S2 must be open (OFF)
9850 838000 (DA199)	X23	S2 in position 1-OFF; 2-ON; 3-OFF



To connect the interrogator of the needle area cover:

### Assembling the circuit board (CLASSIC)

Fig. 11: Connecting the needle area cover interrogator (1)



(1) - Bracket  
(2) - Screw

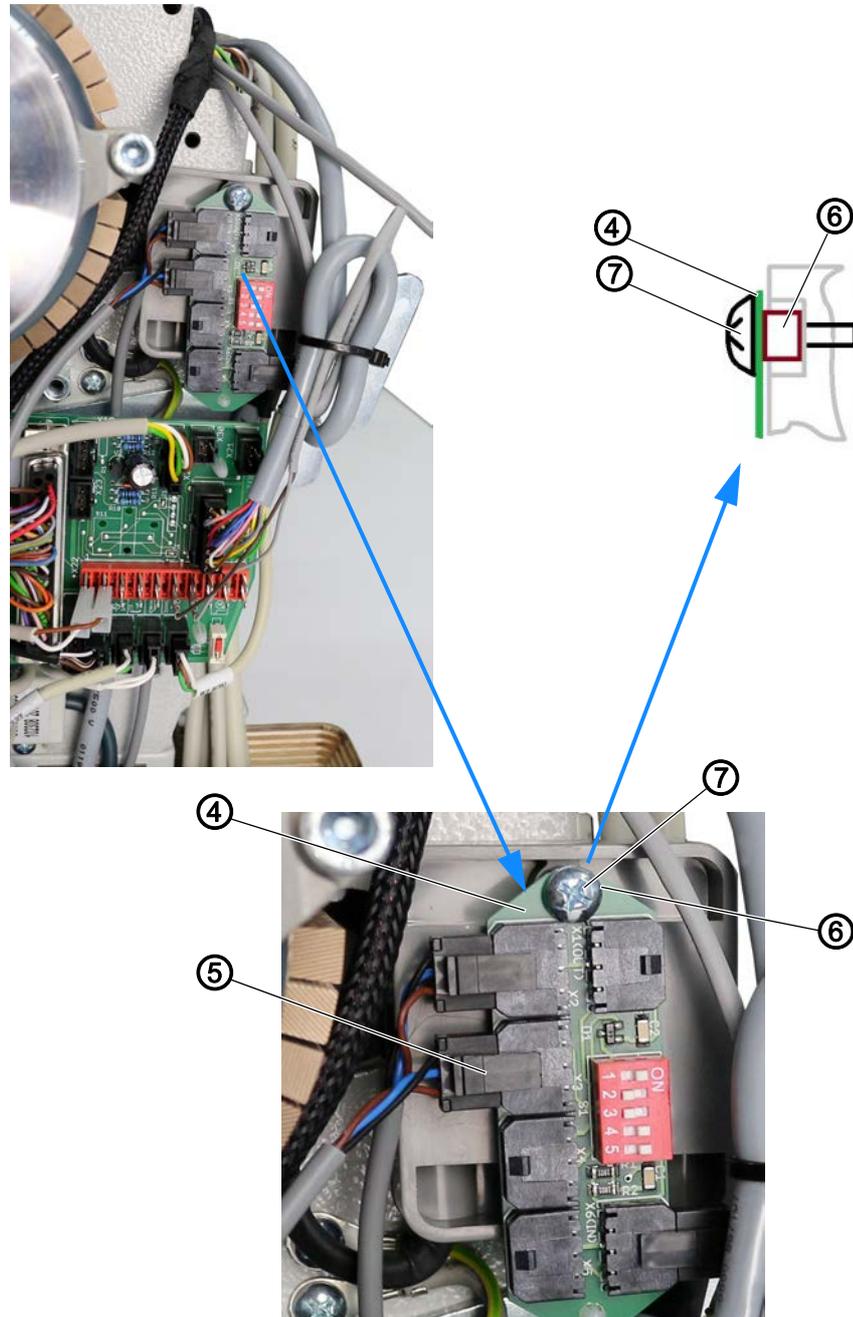
(3) - Screw  
(4) - Circuit board



1. Loosen the screw (3).
2. Tighten the bracket (1) as shown using screw (3).
3. Tighten the circuit board (4) to the bracket (1) using screw (2).

**Assembling the circuit board (PREMIUM)**

Fig. 12: Connecting the needle area cover interrogator (2)



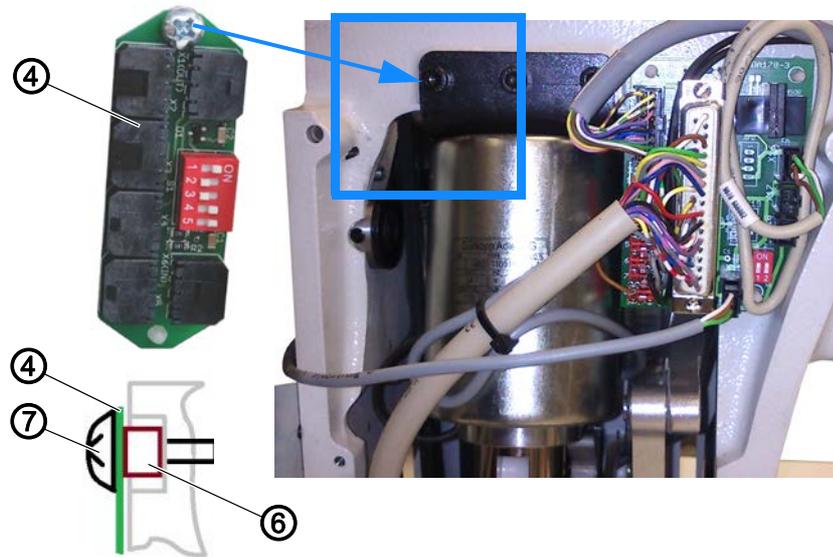
- |                                    |                            |
|------------------------------------|----------------------------|
| (4) - Circuit board                | (6) - Socket (not visible) |
| (5) - Plug (of interrogator cable) | (7) - Screw                |



4. Position the socket (6) on the plastic housing (behind the cover on the side and next to the sewing motor).
5. Position the circuit board (4) over top.
6. Tighten the circuit board (4) through the plastic housing using the screw (7) and the socket (6).

### Assembling the circuit board (shoe machines)

Fig. 13: Connecting the needle area cover interrogator (3)



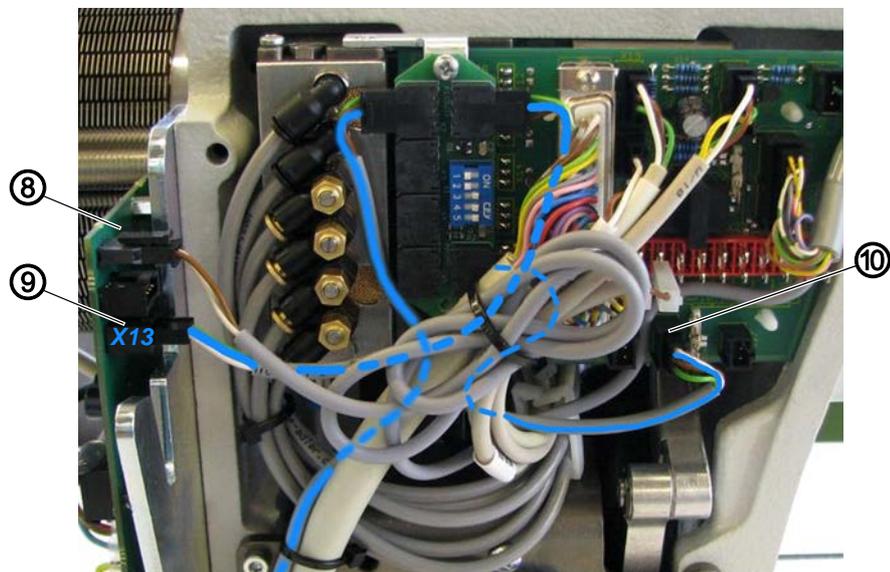
(4) - Circuit board



7. Assemble the circuit board (4) at the top left on the back of the machine arm using the socket (6) and the screw (7).

### Connecting the needle area cover interrogator

Fig. 14: Connecting the needle area cover interrogator (4)

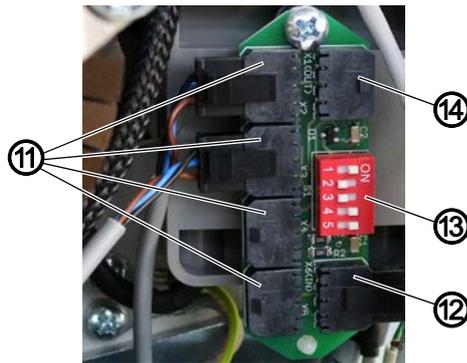


(8) - Circuit board

(9) - Plug connection X13

(10) - Slot on the machine distributor

Fig. 15: Connecting the needle area cover interrogator (5)



(11) - Plug connection **X2-X5**

(13) - DIP switch 1-5

(12) - Plug connection **X6 (IN)**

(14) - Plug connection **X1**



8. Connect the cable of the needle area cover interrogator at any available slot **X2/X3/X4/X5** (11).
9. Connect the corresponding slot on the machine distributor (depending on the machine) to plug connection **X6** (12).
10. When the circuit board (8) is connected to the machine, connect plug connection **X13** (9) with plug connection **X1** (14).
11. Set all DIP switches (13) whose slots **X1-X5** are NOT occupied to position **ON**.



### Information

The **ON** position of the DIP switches signifies that no interrogator is connected at the corresponding slot or that the function of the respective interrogator is switched off.

- ↪ The DIP switches (13) shown in the figure below **MUST** be set to the following position:
  - DIP switch **1: ON**
  - DIP switch **2: OFF**
  - DIP switch **3: OFF**
  - DIP switch **4: ON**
  - DIP switch **5: ON**
- ↪ The needle area cover interrogator has been successfully assembled and connected.

Proceed by testing the functionality of the needle area cover interrogator (📖 p. 19).

## 2.4 Testing the functionality



### Order

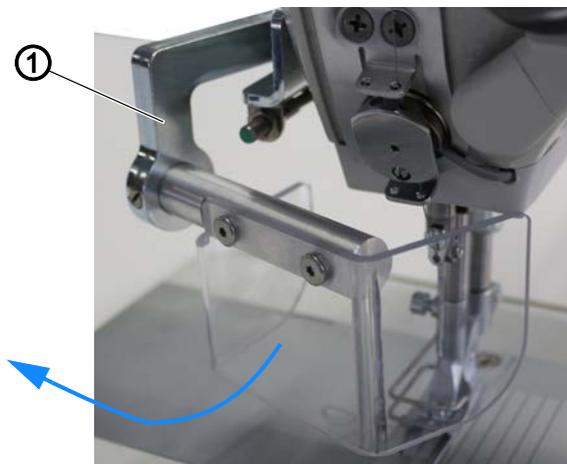
1. Prepare assembly ( p. 6).
2. Assemble the needle area cover interrogator ( p. 10).
3. Connect the needle area cover interrogator ( p. 14).
4. **Test functionality.**



To test the functionality of the needle area cover interrogator:

1. PREMIUM: Place the cover on the side and the handwheel.
2. Place the valve cover.
3. Place the arm cover.
4. PREMIUM: Connect the control panel.
5. Connect the machine to the power supply.
6. Set the main switch on the control to position **1**.
-  The machine is switched on.
7. Press the pedal to position **1** with the needle area cover interrogator closed.
-  The machine sews.

Fig. 16: Testing the functionality



(1) - Needle area cover interrogator



8. Open the needle area cover interrogator (1).
-  The machine is now locked and not sewing.  
The display of the corresponding control panel shows the following message:
  - CLASSIC machines: 3109 (operation lock)
  - PREMIUM machines: *Service Stop 9922*
 You have successfully set up the needle area cover interrogator (1).







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