DÜRKOPP ADLER

M-TYPE DELTA

Additional Instructions

Electronic edge guide

IMPORTANT
READ CAREFULLY BEFORE USE
KEEP FOR FUTURE REFERENCE

1 General information

1.1 Components of the kit 4867 590014 (one-axis electronic edge guide)

Check whether the scope of delivery for kit 4867 590014 is correct prior to installation.

Part number	Quantity	Designation
	1	Electronic edge guide (pre-assembled)
9202 002387	3	Cylinder-head bolt M4x22
9874 867003	1	Cable
0867 594280	1	Head cover
0867 594240	1	Cover
9204 201733	4	Pan-head screw
9210 023417	1	Knurled screw
0467 220660	1	Compression spring

1.2 Components of the kit 4867 590024 (two-axis electronic edge guide)

Check whether the scope of delivery for kit 4867 590024 is correct prior to installation.

Part number	Quantity	Designation
	1	Electronic edge guide (pre-assembled)
9202 100747	3	Countersunk screw M6x12
9874 867026	1	Cable
0867 594280	1	Head cover
0867 594250	1	Cover
9204 201693	3	Pan-head screw

2 Assembly

NOTICE

Property damage may occur!

Risk of breakage from using edge guides not made by Dürkopp Adler.

The kits are intended for edge guides with an axle suspension height of 15 mm and a width of 24 mm.
If using edge guides with different dimensions, you MUST recalibrate the edge guide (📖 *p. 10*).

Travel paths of the edge guides

The lateral travel path is 1.0 - 45 mm.
The vertical travel path is 0.1 - 12 mm.

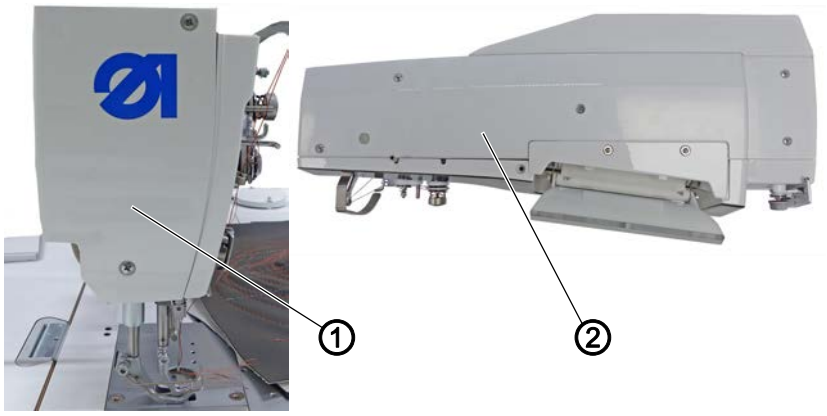
Important

If using edge guides not made by Dürkopp Adler, you need to ensure that their width and their height do not deviate from Dürkopp Adler's edge guides by more than + 10 mm and + 8 mm, respectively.
If the **length and height dimensions are greater** than the Dürkopp Adler edge guide, the maximum travel path will be reduced.
If the **length and height dimensions are smaller** than the Dürkopp Adler edge guide, the minimum distances (X-axis: 1 mm; Z-axis: 0.1 mm) can no longer be achieved.

2.1 One-axis electronic edge guide

2.1.1 Assembling the edge guide

Fig. 1: Assembling the edge guide (1)



(1) - Head cover *(2) - Arm cover*

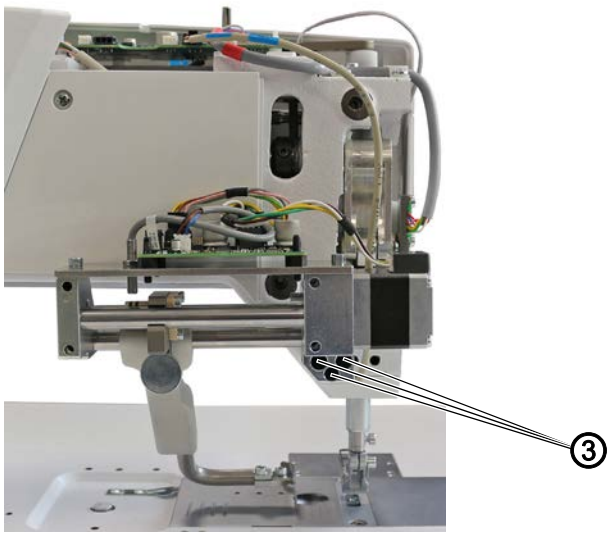
To assemble the electronic edge guide:

1. Switch off the machine.
2. Remove the head cover (1) and the arm cover (2).

Important

The head cover (1) must be substituted for the head cover included with the kit.

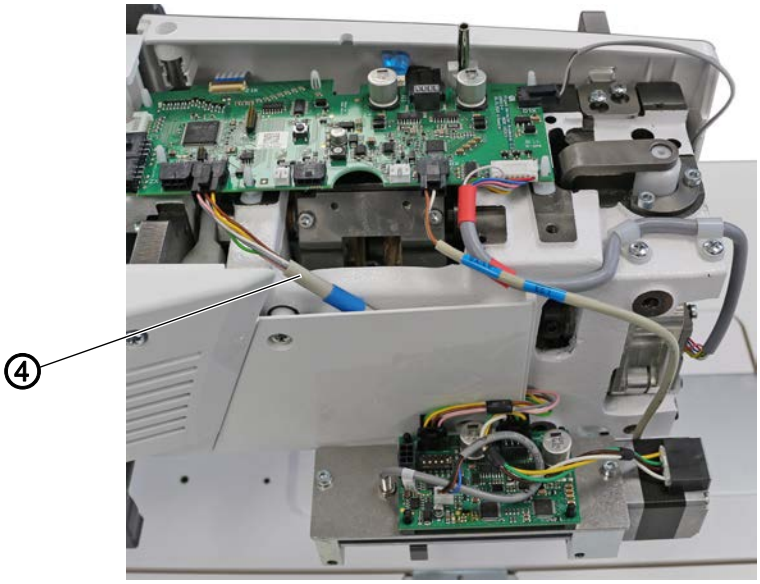
Fig. 2: Assembling the edge guide (2)



(3) - Screws

3. Tighten the edge guide using cylinder-head bolts (3).

Fig. 3: Assembling the edge guide (3)



(4) - Cable

4. Slip the cable (4) onto connection **X4** on the circuit board at the machine arm.
5. Slip the cable (4) onto connection **X105** on the circuit board at the edge guide.

Fig. 4: Assembling the edge guide (4)

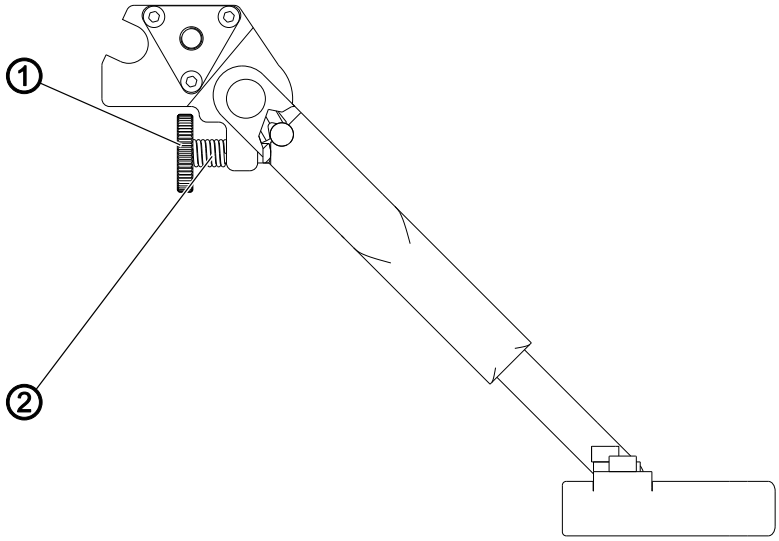
(1) - Head cover
(2) - Arm cover
(5) - Edge guide cover

6. Place and tighten head cover (1), arm cover (2) and edge guide cover (5).

2.1.2 Setting the height of the edge guide

You can use the knurled screw included in the kit to adjust the height of the edge guide by up to 8 mm.

Fig. 5: Setting the height of the edge guide



(1) - Knurled screw *(2) - Compression spring*

To set the height of the electromotive edge guide:

1. Replace the cylinder-head bolt and the nut on the rear of the edge guide with the knurled screw (1) with compression spring (2).
2. Turn the knurled screw (1) until you have reached the desired height of the edge guide.
   - **To set the edge guide higher:** Turn the knurled screw (1) clockwise
   - **To set the edge guide lower:** Turn the knurled screw (1) counterclockwise

2.2 Assembling the two-axis electronic edge guide

Fig. 6: Assembling the two-axis electronic edge guide (1)

(1) - Arm cover
(2) - Head cover
(3) - Rear cover

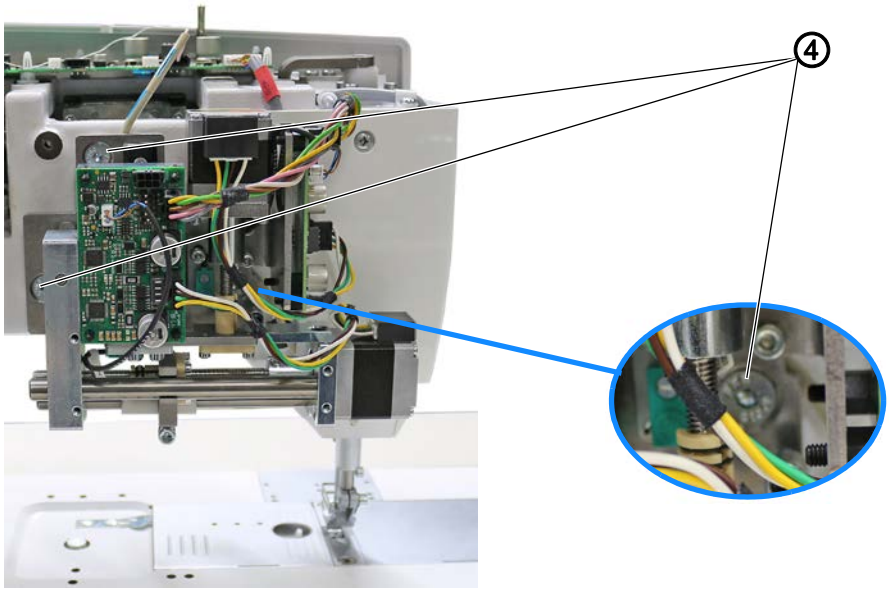
To assemble the electronic edge guide:

1. Switch off the machine.
2. Remove arm cover (1), head cover (2) and rear cover (3).

Important

The head cover (2) must be substituted for the head cover included with the kit.

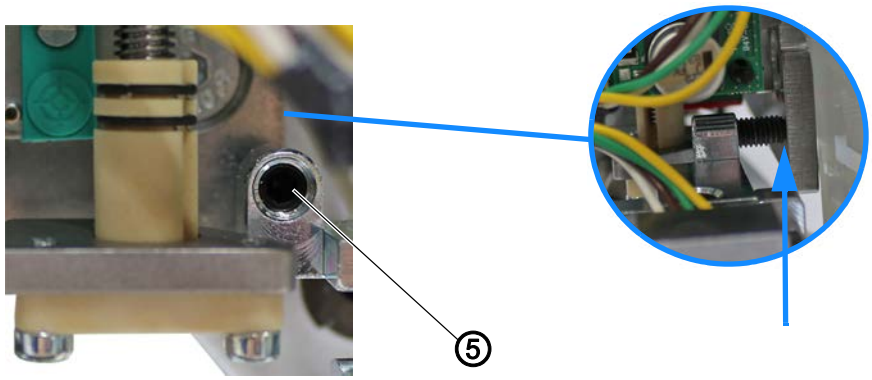
Fig. 7: Assembling the two-axis electronic edge guide (2)



(4) - Screws

3. Tighten the edge guide using countersunk screws (4).

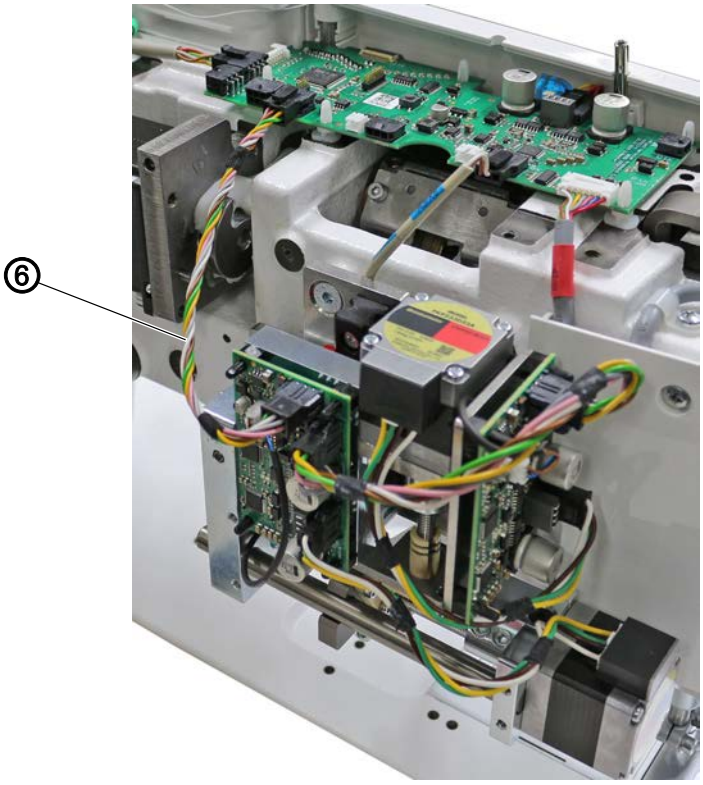
Fig. 8: Assembling the two-axis electronic edge guide (3)



(5) - Screw

4. Check if the screw (5) abuts without exerting pressure.

Fig. 9: Assembling the two-axis electronic edge guide (4)



(6) - Cable

5. Slip the cable (6) onto connection **X4** on the circuit board at the machine arm.
6. Slip the cable (6) onto connection **X103** on the circuit board at the edge guide.
7. Place and tighten arm cover (1) and head cover (2).
   While doing so, make sure not to pinch any cables.

3 Software settings

3.1 Activating the electronic edge guide

NOTICE

Property damage may occur!

Risk of breakage if the electronic edge guide settings are incorrect.

Follow the minimum distance between electronic edge guide and sewing equipment.

To activate the electronic edge guide:

1. Switch on the machine.
2. Log in as the Default Technician on the control panel.
3. Press the symbol to bring up the navigation pane.

↳ This opens the navigation interface.

4. Open the menu *Settings > Machine configuration* and tap the **Edge guide** symbol.

The *Edge guide* menu allows you to set the following parameters:

Icon	Menu items	Value range
	Edge guide	Value range On/Off
	Edge guide mode	Value range • 1-axis Internal/ • 1-axis External/ **for 1-axis edge guide** 📖 *p. 5* • 2-axis External **for 2-axis edge guide** 📖 *p. 8*
	Electromotive	Value range On/Off
	Speed Travel speed of the edge guide	Value range 0500 - 60000 [Hz]
	Min. gap **CAUTION:** the minimum distance varies with the sewing equipment used	

5. Calibrate the electronic edge guide after activating it.

3.2 Calibrating the electronic edge guide

To calibrate the electronic edge guide:

Lateral distance of the edge guide

1. Flip up the edge guide.
2. Call up the *Service > Calibration > Edge Guide* menu item.
3. Confirm the selection with **OK**.

↳ The edge guide moves to the reference position.

4. Fold the edge guide down.
5. Measure the distance between the needle and the edge guide.
6. Enter the value with the **-/+** buttons.
7. Confirm the entry with **Next**.

↳ The calibration is complete.

Height of the edge guide (only for 2-axis edge guide)

1. Call up the *Service > Calibration > Edge Guide Height* menu item.

↳ The control panel displays the value **5 mm**.

2. Place the locking pin included in the accessory pack under the edge guide.
3. Use the **-/+** buttons to move the edge guide until the edge guide slightly clamps the locking pin.
   The value on the display will NOT change.
4. Confirm the entry with **Next**.

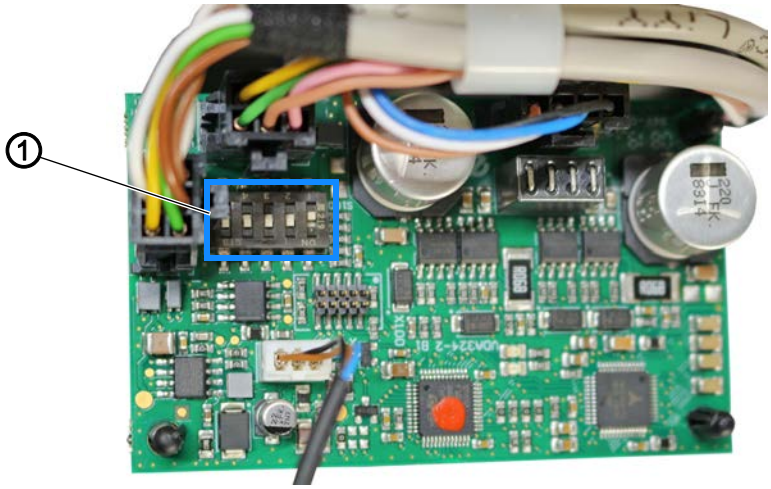
↳ The calibration is complete.

4 Checking the circuit board setting

If replacing one or both circuit boards on the electronic edge guide, check the position of the DIP switches.

DIP switch for the lateral travel movement of the edge guide

Fig. 10: DIP switch for the lateral travel movement of the edge guide



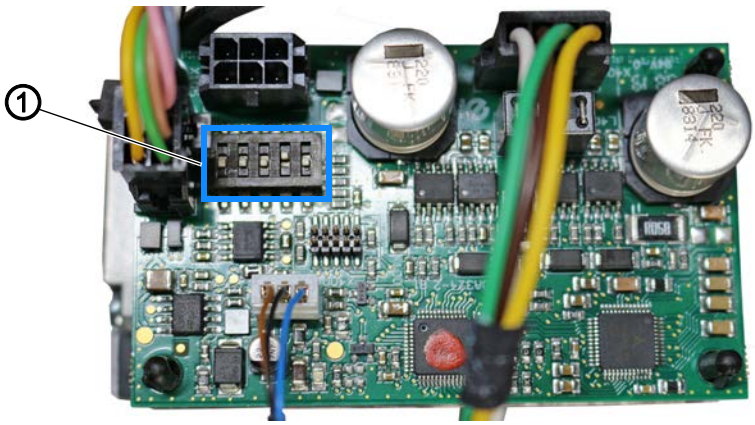
(1) - DIP switch

Proper setting

Position 1 is set to **OFF**.
Positions 2-5 are set to **ON**.

DIP switch for the up and down movement of the edge guide (ONLY for 2-axis edge guide)

Fig. 11: DIP switch for the up and down movement of the edge guide



(1) - DIP switch

Proper setting

Position 1 is set to **ON**.
Position 2 is set to **OFF**.
Positions 3-5 are set to **ON**.

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