



550-867

Additional Instructions

Operation lock

IMPORTANT
READ CAREFULLY BEFORE USE
KEEP FOR FUTURE REFERENCE

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1 Components of the kit

The kit consists of the components *Needle area cover interrogator* and *Throat plate slide interrogator*.

Check whether the scope of delivery for kit 0867 592364 is correct prior to installation.

Part number	Quantity	Description
Needle area cover interrogator (pre-assembled)		
H867 V93298 001	1	Mounting bracket
0867 592350	1	Holder
9205 102447	1	Set screw M6x4
9301 102541	1	Cylindrical pin 6m6x32
H867 V93298 005	1	Hull
9400 000168	1	Thrust piece
9231 000397	1	Hexagon nut
9202 002387	2	Cylinder screw M4x22
9330 000087	2	Washer
0867 592290	1	Holder
0888 110630	1	Cover
9204 431657	2	Cylinder screw M4x8 TORX X10
0867 592300	1	Holding plate
9203 003627	2	Cylinder screw M4x4
9815 710221	1	Inductive sensor
Throat plate slide interrogator		
9815 710221	1	Inductive sensor
0867 490110	1	Metal sheet
9202 002067	1	Cylinder screw M4x8
9840 120025	1	Fastening clip
9217 300517	1	Oval-head screw M4x6
Other components		
9850 867034	1	PCB
9830 501025	1	Distance Sleeve
9204 211737	1	Oval-head screw M4x25
9850 867042	1	PCB

Part number	Quantity	Description
9870 867071	2	Cable
9840 121002	10	Cable tie
0791 550702 EN	1	Additional Instructions

**Important**

The kit is compatible with the machine software 20.7 or newer.
If you need to perform a machine software update, please contact the
Dürkopp Adler-Service:

Dürkopp Adler AG

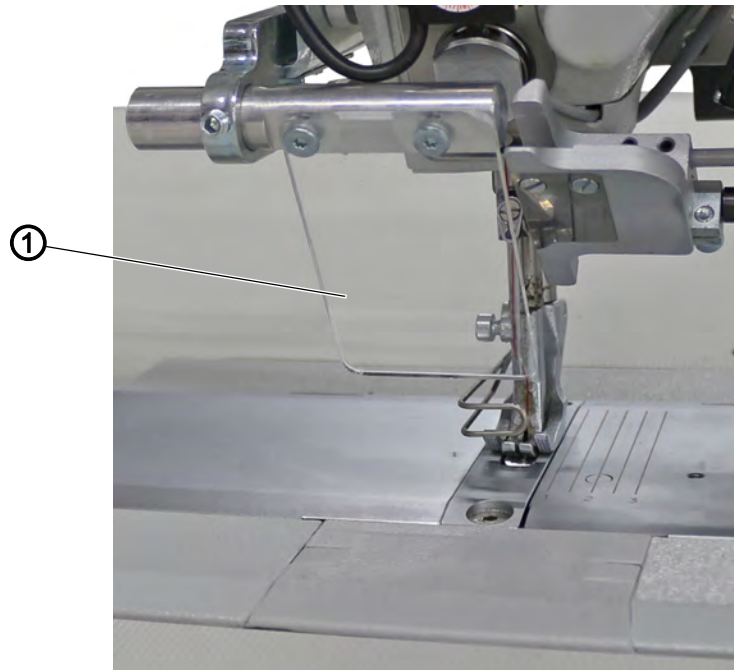
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2 Needle area cover interrogator

2.1 General information

Fig. 1: General information



(1) - Cover

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.

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.

2.2 Assembling the Needle area cover interrogator

WARNING



Risk of injury!

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

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.

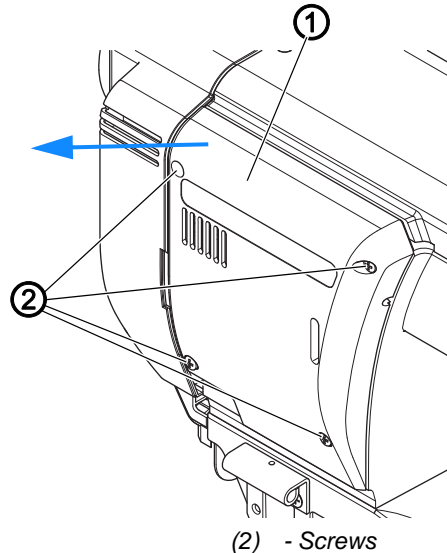


To assemble the needle area cover interrogator:

1. Switch off the machine.

Removing the valve cover

Fig. 2: Assembling the needle area cover interrogator (1)



(1) - Valve cover

(2) - Screws

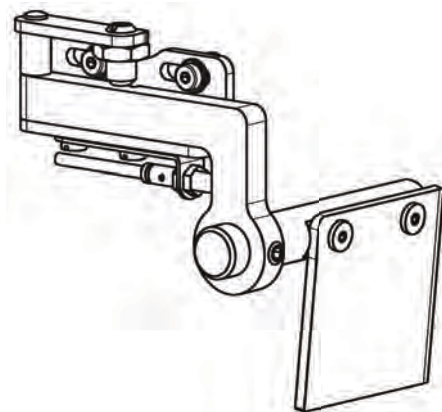


2. Loosen the screws (2).
3. Remove the valve cover (1).



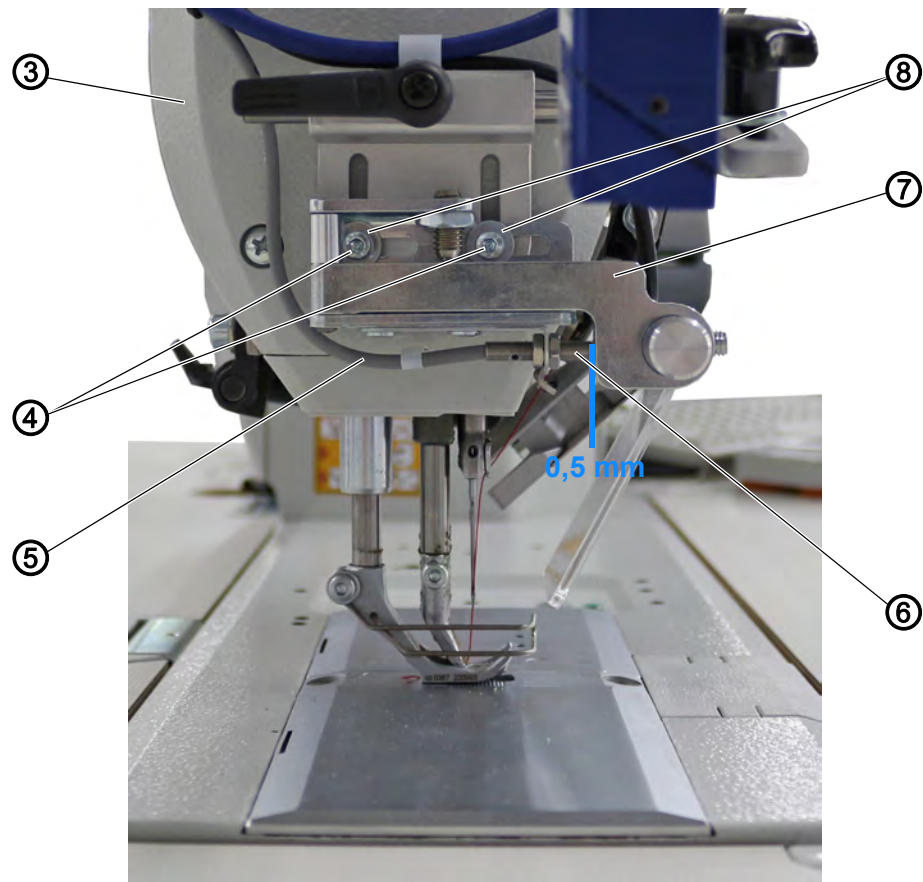
Information

Fig. 3: Assembling the needle area cover interrogator (2)



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. 4: Assembling the needle area cover interrogator (3)



- | | |
|------------------|------------------------|
| (3) - Head cover | (6) - Proximity switch |
| (4) - Screws | (7) - Holder |
| (5) - Cable | (8) - Washers |



4. Assemble the holder (7) to the head cover (3) using screws (4) and washers (8).



Information

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

5. 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.
6. Tighten the screws (4).
7. Check if the distance between the proximity switch (6) and the holder (7) is approx. 0.5 mm.
This distance has been preset at the factory.

Fig. 5: Assembling the needle area cover interrogator (4)



(5) - Cable

(9) - Conduit



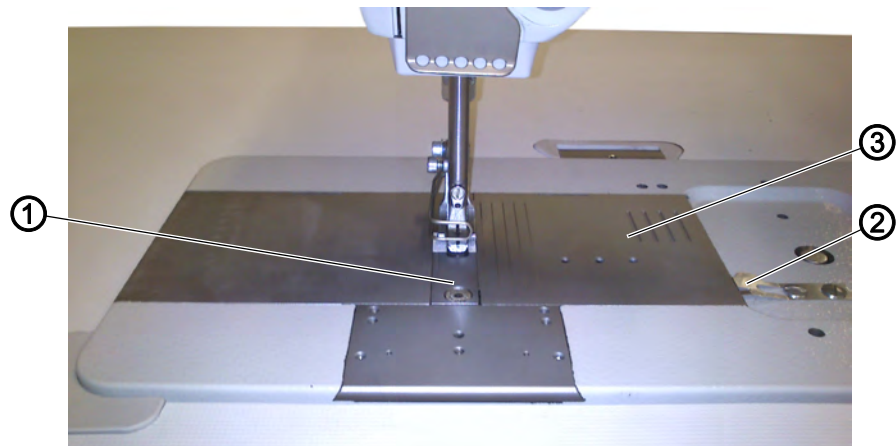
8. Lay the cable (5) through the conduit (9) upwards and backwards.
9. Extend the cable (5) with 3-POL cable and lead it through the table top cut-out to the switch cabinet.

3 Throat plate slide interrogator

3.1 General information

During sewing, the throat plate slide (3) abuts on the throat plate (1) and is held in place by the locking spring (2). The machine is ready for operation:

Fig. 6: General information (1)



(1) - Throat plate
(2) - Locking spring

(3) - Throat plate slide

Fig. 7: General information (2)



(3) - Throat plate slide

When the throat plate slide (3) is open, e. g. during a bobbin change, the proximity switch will detect this condition and lock the machine.

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.

3.2 Assembling the throat plate slide interrogator

WARNING



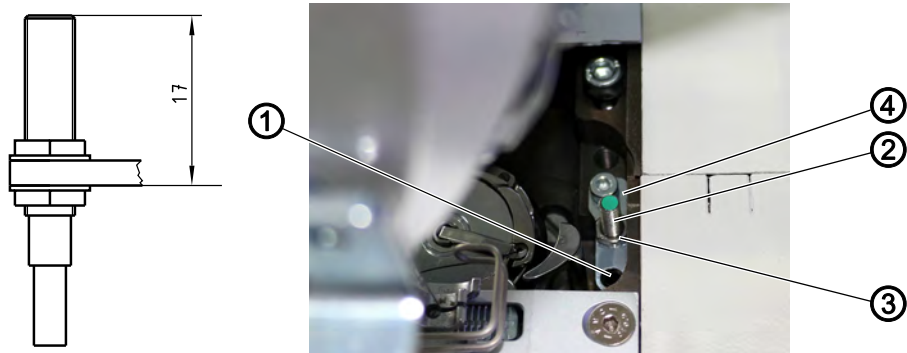
Risk of injury!

Faulty assembly, e.g. faulty wiring, can cause the entire machine to malfunction.

Only qualified specialists may assemble the throat plate slide interrogator.

Do not assemble the throat plate slide interrogator unless the machine is switched off.

Fig. 8: Assembling the throat plate slide interrogator (1)



(1) - Position (not to be used)

(2) - Proximity switch

(3) - Position

(4) - Metal Bracket



To assemble the interrogator of the throat plate slide:

1. Open the throat plate slide.
 2. Tighten the proximity switch (2) to the metal bracket (4) using the nuts and toothed washers:
 - The distance between the lower edge of the metal bracket (4) and the upper edge of the proximity switch (2) is **17 mm**
 - Tighten the proximity switch (2) at position (3) (right hole in the metal bracket (4))
 3. Screw the metal bracket (4) into the threaded hole in the hook bearing using the screw.
- ⚠ This setting requires a safe switching distance of approx. 0.5 mm between throat plate slide (6) and proximity switch (2).



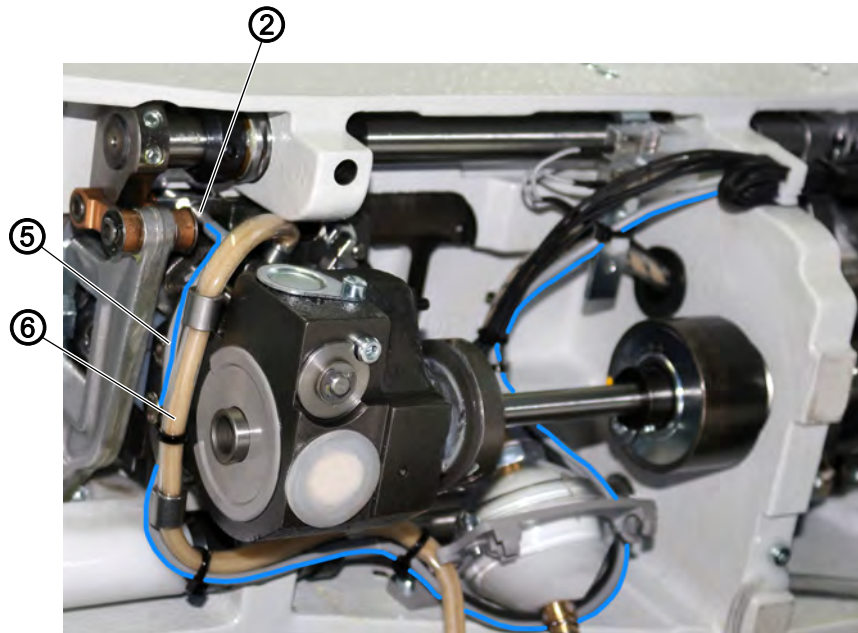
Information

Switching distance between throat plate slide (6) and proximity switch (2):

- Standard switching distance: 0.8 mm
- Safe switching distance: 0.64 mm

Laying the cable

Fig. 9: Assembling the throat plate slide interrogator (2)



(2) - Proximity switch

(6) - Oil line

(5) - Cable



4. Swivel up the machine head.

5. Tighten the cable (5) of the proximity switch at the hook support.

6. Lay the cable (5) to the right towards the circuit board along the oil line (6).

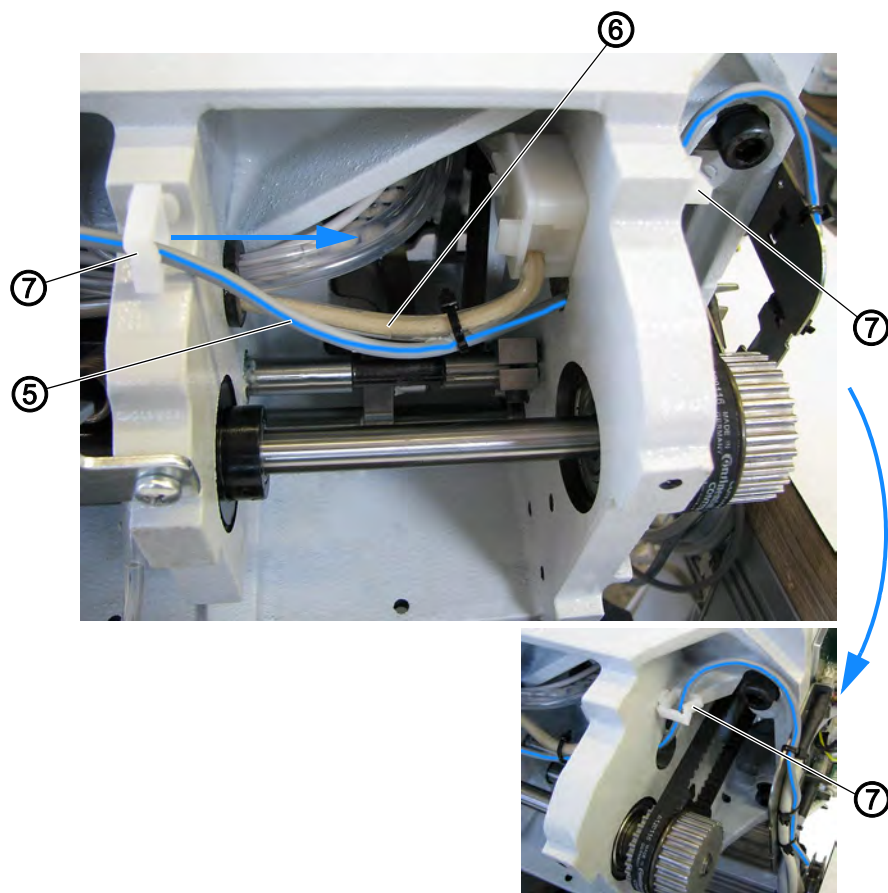


Important

Make sure not to pinch off the oil line (6).

7. Extend cable (7) with 3-POL cable.

Fig. 10: Assembling the throat plate slide interrogator (3)



(5) - Cable
(6) - Oil line

(7) - Clips



8. Guide the cable (5) through the clips (7) and lay it along the oil line (6).
9. Lead the cable (5) to the switch cabinet.

4 Connecting the needle area cover interrogator and the throat plate slide interrogator

DANGER



Risk of death from live components!

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

Only qualified specialists may perform work on electrical equipment.

Depending on the number of plugs assigned (number of monitoring elements), the correct positions of the dip switch (S1) must be set. A particular plug is to be used for every position:

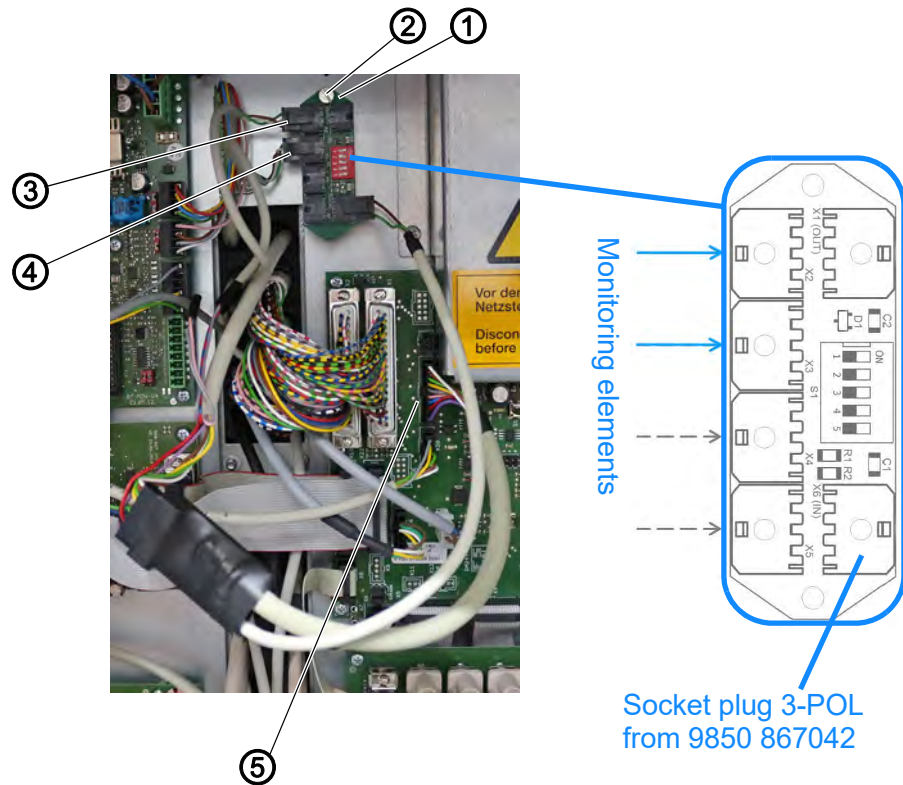
Number	Plug
1	X1 (OUT)
2	X2
3	X3
4	X4
5	X5

The **ON** position of the dip switch means that the associated plug has not connected a monitoring element or that the monitoring element is out of operation.

The machine has 2 inductive switches in X2 and X3.

The dip switch is set to 1-ON; 2-OFF; 3-OFF; 4-ON; 5-ON.

Fig. 11: Connecting the needle area cover interrogator and the throat plate slide interrogator



- | | |
|---|--|
| (1) - Hull | (4) - Plug throat plate slide interrogator |
| (2) - Screw | (5) - Slot X13 |
| (3) - Plug needle area cover interrogator | |



To connect the needle area cover interrogator and the throat plate slide interrogator:

1. Fasten PCB with screw (2) and sleeve (1).
If necessary, remove the cable clamp first.
2. Plug 3-POL socket plug from cable 9850 867042 into slot **X6**.
3. Remove plug from slot **X13** (1).
4. Connect plug on PCB to cable 9850 867042.
5. Plug the 10-POL plug from cable 9850 867042 in slot **X13** (1).

5 Software settings



The following software settings must be made:


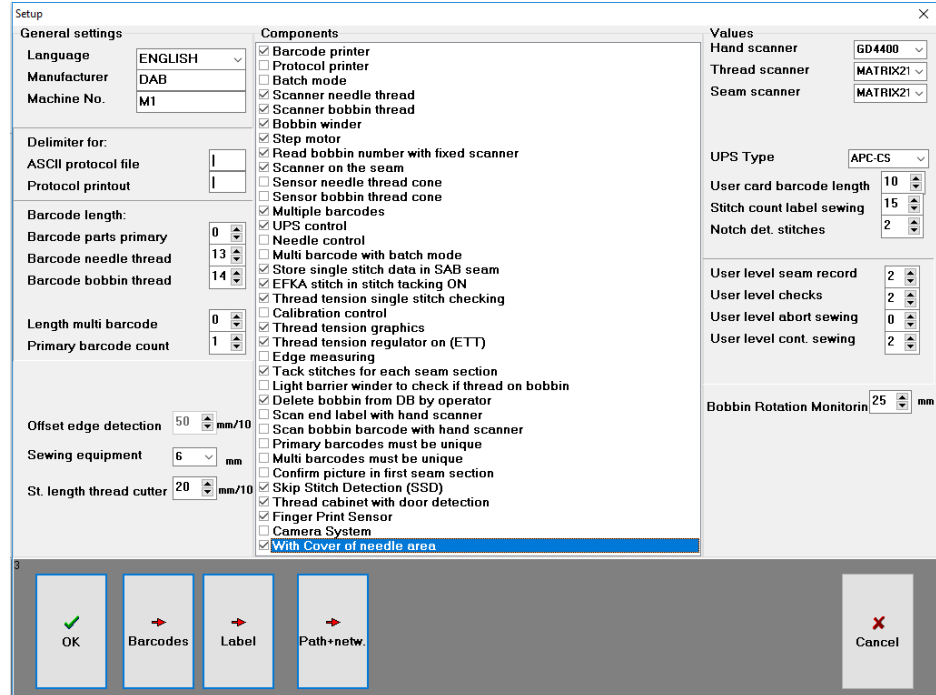
1. If necessary, update the machine software.
If you require a machine software update, please contact the Dürkopp Adler Service ( p. 4).

Fig. 12: Software settings



The screenshot shows the 'Setup' menu with the following sections:

- General settings:**
 - Language: ENGLISH
 - Manufacturer: DAB
 - Machine No.: M1
 - Delimiter for: |
 - ASCII protocol file: |
 - Protocol printout: |
 - Barcode length: 0
 - Barcode parts primary: 13
 - Barcode needle thread: 14
 - Barcode bobbin thread: 14
 - Length multi barcode: 0
 - Primary barcode count: 1
 - Offset edge detection: 50 mm/10
 - Sewing equipment: 6 mm
 - St. length thread cutter: 20 mm/10
- Components:**
 - ☒ Barcode printer
 - ☐ Protocol printer
 - ☐ Batch mode
 - ☒ Scanner needle thread
 - ☒ Scanner bobbin thread
 - ☒ Bobbin winder
 - ☒ Step motor
 - ☒ Read bobbin number with fixed scanner
 - ☒ Scanner on the seam
 - ☐ Sensor needle thread cone
 - ☐ Sensor bobbin thread cone
 - ☒ Multiple barcodes
 - ☒ UPS control
 - ☐ Needle control
 - ☐ Multi barcode with batch mode
 - ☒ Store single stitch data in SAB seam
 - ☒ EFKA stitch in stitch tacking ON
 - ☒ Thread tension single stitch checking
 - ☐ Calibration control
 - ☒ Thread tension graphics
 - ☒ Thread tension regulator on (ETT)
 - ☐ Edge measuring
 - ☒ Tack stitches for each seam section
 - ☐ Light barrier winder to check if thread on bobbin
 - ☒ Delete bobbin from DB by operator
 - ☐ Scan end label with hand scanner
 - ☐ Scan bobbin barcode with hand scanner
 - ☐ Primary barcodes must be unique
 - ☐ Multi barcodes must be unique
 - ☐ Confirm picture in first seam section
 - ☒ Skip Stitch Detection (SSD)
 - ☒ Thread cabinet with door detection
 - ☒ Finger Print Sensor
 - ☐ Camera System
 - ☒ With Cover of needle area
- Values:**
 - Hand scanner: GD4400
 - Thread scanner: MATRIX21
 - Seam scanner: MATRIX21
 - UPS Type: APC-CS
 - User card barcode length: 10
 - Stitch count label sewing: 15
 - Notch det. stitches: 2
 - User level seam record: 2
 - User level checks: 2
 - User level abort sewing: 0
 - User level cont. sewing: 2
 - Bobbin Rotation Monitor: 25 mm

Bottom navigation bar:

- OK (green checkmark)
- Barcodes (red arrow)
- Label (red arrow)
- Path+netw. (red arrow)
- Cancel (red X)



2. Enter the *Setup* menu and select the option *With Cover of needle area*.
3. Confirm with **OK**.



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