

550-767

Gestalteter Arbeitsplatz für Seitenairbag - Sollreißnaht Engineered work station for side airbag tearing seam

Bedienanleitung / Operating instructions

Aufstellanleitung / Installation instructions



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Übersicht	Summary
Bedienanleitung Aufstellanleitung Serviceanleitung (0791 767651)	Operating Instructions Installation Instructions Service Instructions (0791 767651)
Bauschaltplan	Interconnection-diagram
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Foreword

This instruction manual is intended to help the user to become familiar with the machine and take advantage of its application possibilities in accordance with the recommendations.

The instruction manual contains important information on how to operate the machine securely, properly and economically. Observation of the instructions eliminates danger, reduces costs for repair and down-times, and increases the reliability and life of the machine.

The instruction manual is intended to complement existing national accident prevention and environment protection regulations.

The instruction manual must always be available at the machine/sewing unit.

The instruction manual must be read and applied by any person that is authorized to work on the machine/sewing unit. This means:

- Operation, including equipping, troubleshooting during the work cycle, removing of fabric waste,
- Service (maintenance, inspection, repair) and/or
- Transport.

The user also has to assure that only authorized personnel work on the machine.

The user is obliged to check the machine at least once per shift for apparent damages and to immediatly report any changes (including the performance in service), which impair the safety.

The user company must ensure that the machine is only operated in perfect working order.

Never remove or disable any safety devices.

If safety devices need to be removed for equipping, repairing or maintaining, the safety devices must be remounted directly after completion of the maintenance and repair work.

Unauthorized modification of the machine rules out liability of the manufacturer for damage resulting from this.

Observe all safety and danger recommendations on the machine/unit! The yellow-and-black striped surfaces designate permanend danger areas, eg danger of squashing, cutting, shearing or collision.

Besides the recommendations in this instruction manual also observe the general safety and accident prevention regulations! The non-observance of the following safety instructions can cause bodily injuries or damages to the machine.

- 1. The machine must only be commissioned in full knowledge of the instruction book and operated by persons with appropriate training.
- 2. Before putting into service also read the safety rules and instructions of the motor supplier.
- 3. The machine must be used only for the purpose intended. Use of the machine without the safety devices is not permitted. Observe all the relevant safety regulations.
- 4. When gauge parts are exchanged (e.g. needle, presser foot, needle plate, feed dog and bobbin) when threading, when the workplace is left, and during service work, the machine must be disconnected from the mains by switching off the master switch or disconnecting the mains plug.
- 5. Daily servicing work must be carried out only by appropriately trained persons.
- 6. Repairs, conversion and special maintenance work must only be carried out by technicians or persons with appropriate training.
- For service or repair work on pneumatic systems, disconnect the machine from the compressed air supply system (max. 7-10 bar). Before disconnecting, reduce the pressure of the maintenance unit. Exceptions to this are only adjustments and functions checks made by appropriately trained technicians.
- 8. Work on the electrical equipment must be carried out only by electricians or appropriately trained persons.
- 9. Work on parts and systems under electric current is not permitted, except as specified in regulations DIN VDE 0105.
- 10. Conversion or changes to the machine must be authorized by us and made only in adherence to all safety regulations.
- 11. For repairs, only replacement parts approved by us must be used.
- 12. Commissioning of the sewing head is prohibited until such time as the entire sewing unit is found to comply with EC directives.
- 13. The line cord should be equipped with a country-specific mains plug. This work must be carried out by appropriately trained technicians (see paragraph 8).



It is absolutely necessary to respect the safety instructions marked by these signs.



Danger of bodily injuries !

Please note also the general safety instructions.

Preface and general safety instructions

Part	1: Operating Instructions, Class 550-767 (Edition: 10.2007)
1.	Items delivered
2-	Designated use
3.	Equipment
3.1 3.2	Basic equipment 6 Additional equipment 6
4.	Technical data
5.	Operation
5.1	Threading the needle thread8
5.2	Adjusting the needle thread tension
5.3	Opening the needle-thread tension
5.4	Winding on the hook thread12
5.5	Threading the bobbin thread
5.6	Adjusting the bobbin thread tension
5.7	Replacing the needle
5.8	Lifting and locking the sewing feet
5.9	Adjusting the sewing-foot stroke
5.10	Sewing-foot pressure
5.11	Adjusting the stitch length
5.12	Buttons on sewing arm
5.13	RFW 13-3 bobbin thread monitor18
5.14	HP 13–10 electro-pneumatic rapid stroke adjustment 20
6.	Operating the rupture-seam visualisation facility
6.1	Access to the system
6.1.1	Advice for the production begin
6.2	Seam-type function
6.2.1	Create a new seam type
6.2.2	Edit seam type
6.2.3	Copy seam type
6.2.4	Delete seam type. 32
6.3	Database function 33
6.4	Check function
6.5	Needle-thread tension tolerance range.48
6.6	Error codes
6.7	Setting the end-label barcodes
6.8	Setting the end-label layouts
6.9	Adjusting barcode definitions 55
7.	Sewing
7.1	Label scanner (optional) 62
8.	Maintenance
8.1	Cleaning
8.2	Oiling



1. Product description

The DÜRKOPP ADLER class 550-767 is an engineered sewing station with the following features:

- flat-bed double-lockstitch sewing machine with underfeed, needle feed and alternating-foot overfeed.
- single-needle machine with thread cutter under the throat plate.
- apparatus slide in the base plate for the rapid change of different apparatus.
- maximum clearance of 16 mm under the sewing feet when raised.
- stroke of alternating sewing feet adjustable to a maximum of 7 mm by programming function.
- automatic, unpressurised oil-recirculating lubrication with sight glasses for oil level and circulation inspection, hook lubrication integral to the circulation.
- large two-piece vertical hook with bobbin-housing lift.
- safety coupling to avoid displacing or damaging the hook if the thread gets jammed in the hook track.

2. Designated use

The class **550—767** machine is an engineered sewing station designed for sewing light to medium-heavy material. Such material is generally made of textile fibres, but it may also be leather. It is used in the clothing industry and for domestic and motor-vehicle upholstery.

This sewing machine can also be used to produce so-called technical seams. In this case, however, the operator must assess the possible dangers which may arise (with which **DÜRKOPP ADLER AG** would be happy to assist), since such applications are on the one hand relatively unusual and, on the other, they are so varied that no single set of criteria can cover them all. The outcome of this assessment may require appropriate safety measures to be taken.

Generally only dry material may be sewn with this sewing unit. The material may be no thicker than **10 mm** when compressed by the lowered sewing feet. The material may not contain any hard objects, since if it does the machine may not be operated without an eye-protection device. No such device is currently available.

The seam is generally produced with textile-fibre sewing thread of up to gauge 11/3 NeB (cotton), 11/3 Nm (synthetic) or 11/4 Nm (covered yarn). Before using any other thread the possible dangers arising must be assessed and appropriate safety measures taken if necessary.

This sewing unit may be set up and operated only in dry, well-maintained premises. If the sewing machine is used in other premises which are not dry and well-maintained it may be necessary to take further precautions (which should be agreed in advance – see EN 60204-31: 1999).

As manufacturers of industrial sewing machines we proceed on the assumption that personnel who work on our products will have received training at least sufficient to acquaint them with all normal operations and with any hazards which these may involve.

3. Equipment

3.1 Basic equipment

The class **550—767** sewing unit is supplied with the following basic equipment:

RAP 13-2	Electro-pneumatic bar tack and sewing-foot lift, foot-operated.
HP 13-10	Electro-pneumatic rapid stroke adjustment by knee switch (switch and touch operation) to maximum stroke height with simultaneous stitch-rate limit. Automatic infinitely-variable stitch-rate limit as a function of the stroke height set.
RFW 13-3	residual-thread monitor
798 500088	Sewing light transformer
907 487519	Mounting kit for sewing light
9822 510001	Sewing lamp (halogen)

3.2 Additional equipment

The following additional equipment can be supplied for the ?class **550-767** sewing unit:

0467 367959	pneumatic needle-cooling unit NK 13-1
0767 590129	Uninterruptible power supply 230 V/1000 A
0767 100134	DS 2200-1100 5 V barcode scanner for end-label recognition
0767 490214	DS 2200-1100 5 V barcode scanner for hook thread recognition
0767 490224	DS 2200-1100 5 V barcode scanner for needle thread recognition
9800 330010	Operating panel EFKA V820

Technical data 4.

Stitch type:	301 / double lockstitch
Number of needles:	1
Needle system:	134-35
Needle size ¹ :	110-170 Nm
Thread thicknesses ¹ - Cotton: - Synthetic sewing thread: - Covering thread: Bobbin capacity with synthetic sewing thread	12/3 NeB 11/3 Nm? 11/3 Nm - 30/3 max. 35 m - 11/3 max. 12 m
Stitch rate 2	
- equipment with HP: - on delivery:	max. 3500 min-1 3200 min-1
Stitch length ¹ :	0-9 mm
Stroke height of sewing feet: (on delivery):	max. 7 mm 6 mm
Clearance under sewing feet - Sewing: - Raised:	7 mm 16 mm
Handwheel groove (average diameter):	80 mm
Operating pressure:	6 bar
Air consumption:	approx. 0.7 NI per working cycle
Nominal voltage:	1~ 190-240 V, 50/60 Hz
Input power:	1 kVA
Dimensions (including PC table): Working height : (to upper edge of table plate)	2100 x 1150 x 1500 mm 685-1085 mm
Weight (head only):	approx. 60 kg

Workplace-related emission value to DIN 45635-48-A-1-KL2:

Lc = 83 dB (A) Stitch length: 5.0 mm, sewing-foot stroke: 1.6 mm, stitch rate: 2 500 min⁻¹ material G1 DIN 23328 4-ply

Lc = 80 dB (A) Stitch length: 7.2 mm, sewing-foot stroke: 5.6 mm, stitch rate: 1.500 min⁻¹ material 2-ply Skai 1.6 mm 900 g/m2 DIN 53352

¹ according to E No.

² depends on stitch length and stroke height of the sewing feet

5. Operation

5.1 Threading the needle thread

CAUTION: DANGER OF INJURY!

Turn off the main switch!

The needle thread may only be threaded with the machine turned off.





Versions with switch 2:

Before placing the needle-thread cones on the stand they must be scanned by the manual scanner. If a needle-thread bobbin is removed, this is recognised by the control via switch 2 and the scanning process is to be repeated.

Version with optional thread-barcode scanner:

- Place the thread bobbin on the stand while ensuring that the barcode of the thread bobbin can be read by the optional thread-barcode scanner.
 If the barcode is not recognised by the scanner, an error message will be displayed on the monitor.
- Open and fold back cover 1.



- Pass the thread through guide 7 and anti-clockwise around prethread-tensioning spring-tensioner 8. Pass the thread through guide 7 again.
- Pass the thread around guide 10 and then anti-clockwise around the main tensioner 9. Pass the thread clockwise around main tensioner 11.
- Pass the thread clockwise around the thread tensioning unit 4, past the check spring 3 and through the guide 2.
- Pass the thread through take up lever 1 and through guides 2, 5 and 6.
- Pass the thread through the needle; pull out several centimetres of thread and cut.
- Pass the needle thread through the needle from the right, pull out a few centimetres of thread and cut.

HINT

The needle thread can be threaded without opening cover 1 by tying the new needle thread to the residual needle thread and pulling it through the thread tensioner.



The tension must be set according to the requirements of the manufacturer of seat-covers. The cross-over point should be in the centre of the material.

- Adjust the pre-tension 1. The pre-tensioning should be set lower than at the main tensioners 2 and 3.
- Adjust the main tension 2 and 3.
- Adjust the tolerance range 4 (window) for seam monitoring via the Touch Screen Monitor.
- 0 = monitoring deactivated.

Hint

The required thread tension is set via the "ELTEX" menu. See section **6.5: Needle-thread tension tolerance range.**

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5.3 Opening the needle-thread tension

The needle-thread tension is automatically opened when the thread is cut.

 Press button 2 manually or press down the upper right-hand corner of cover 1. The needle-thread tension remains opened for as long as the button or cover is held down.





1



CAUTION:

Only special bobbins suitable for this type of machine may be used!



- Place the needle-thread cone onto the thread stand.
- Pass the needle thread through the thread guide on the take-up arm and through pre-tensions 1 and 2 as shown in the illustration.
- Carefully wind a few turns of thread anti-clockwise onto the reserve groove 6 of the bobbin by hand and place the bobbin on the thread stand with the ring 3 and the matt surface towards the operator.
- Swivel the bobbin-winder lever 5 against the empty bobbin.
- Enter the bobbin number via the Touch Screen Monitor.
 When the bobbin is full, winding is automatically stopped by the bobbin-winder lever 5.

Caution!

Before you press the ENTER key, please ensure that the number entered does in fact correspond to the number engraved on the bobbin.



Adjust pre-tensions 1 and 2.? The thread should be wound on at as low a tension as possible.





CAUTION: danger of injury! Turn off the main switch! The bobbin thread may only be threaded when the sewing machine is switched off.

- Raise flap 1 and remove the empty bobbin using a magnet.
- Insert bobbin 2 so that it turns anti-clockwise when the thread is drawn off.
- Pass the thread through slit 4 and pull beneath spring 5.
- Pass the thread through slit 6 and pull out approx. 3 cm of thread.
- Close flap 1 and pull the thread through the guide 6 of flap 1.
- Enter the bobbin number engraved on the bobbin 7.

CAUTION!

Before you press the ENTER key, please ensure that the number entered does in fact correspond to the number engraved on the bobbin.



5.6 Adjusting the bobbin thread tension

The bobbin thread tension must be adjusted in accordance with the required seam type.

Adjust the tension with screw 3.

1

5.7 Replacing the needle



CAUTION: danger of injury!

Turn off the main switch!

The needle may only be threaded and replaced when the sewing machine is switched off.



- Turn the handwheel until the needle bar has reached its top dead centre.
- Undo screw 1.
- Remove needle.
- Insert the new needle with its channel towards the hook and push it up as far as it will go.
- Tighten screw 1.



CAUTION:

If a needle of a different thickness is fitted the settings must ?be altered as specified in the servicing instructions.

A thinner needle may cause faulty stitches or damage to the thread. A thicker needle may damage the hook point itself.



The sewing feet can be raised mechanically or pneumatically.

Mechanical operation

- Swivel lever 2 downwards.

Pneumatic operation

- Push pedal 3 half-way back (first position back).

Once raised mechanically or pneumatically, the sewing feet can be secured in raised position using lever 2.

- Swivel lever 2 downwards.
 The sewing feet are secured in the raised position.
- Swivel lever 2 downwards.
 The sewing feet are released.



The stroke height 1 of the sewing-foot can be adjusted via the Touch Screen Monitor in the "seam types" menu in four steps (0, 1, 2, 3).

The maximum stroke can be activated during sewing in free **seam sections** with the knee switch 2.

This function is not available in documented seam sections.

HINT!

The sewing-foot stroke and stitch rate are interdependent. The control unit detects what foot-stroke has been set by means of a potentiometer and restricts the stitch rate accordingly. The values are pre-set in the control unit.

5.10 Sewing-foot pressure



The required sewing-foot pressure is set using rotary knob 3.

- To increase the sewing-foot pressure : turn knob 3 clockwise
- To reduce the sewing-foot pressure
 turn knob 3 clockwise

HINT!

The sewing-foot pressure can only be altered when knob 3 (clamping block) is released: see the Servicing instructions.

5.11 Adjusting the stitch length

The stitch length is adjusted in the "Seam types" menu on the Touch Screen Monitor.

5.12 Buttons on sewing arm



Button 5 =	intermediate	lock-stitches	during	sewing

- Button **6** = needle in high or low position
- Button 7 = suppresses starting or finishing lock-stitches
- Button 8 = authorises thread-cutting in the monitored region
- Press and hold down button 5.
 An intermediate lock-stitch is sewn. The machine sews backwards for as long as the button is held down.
- Press button 6.
 The needle is raised or lowered.
- Press button 7.
 The next starting or finishing lock-stitch will not be sewn.
- Press button 8.
 The thread can now be severed in the monitored region using the pedal. This enables the material to be removed in the event of a fault. The program issues an error message.



The bobbin thread monitor monitors the quantity of thread on the bobbin. A signal is issued on the PC when only a small quantity of thread remains.

The operator can finish the seam and fit a new bobbin, thus avoiding damage to the material and the need for repairs.

Function and operation of the bobbin thread monitor

If the light beam from the light barrier is reflected by surface 1 on the bobbin core during sewing, a signal is displayed on the PC and sewing is interrupted.

- Acknowledge the message on the PC screen.
- Release the pedal, then push it forwards again. The seam will be continued. The quantity of thread in reserve groove 2 of the bobbin is normally sufficient to finish it.
- At the end of the seam push the pedal back. The thread is cut.
- Terminate sewing mode on the PC with "Back".



CAUTION: danger of injury!

Turn off the main switch!

The bobbin may only be replaced with the machine turned off!

- Replace the bobbin.
- Reactivate sewing mode on the PC with "Sew". A new seam can be sewn.



CAUTION:

The bobbin must be placed in position with ring 3 downwards. The area around the bobbin housing and light barrier must be cleaned of any fluff!

Hint

If the empty bobbin is not replaced by a full one, the signal reappears on the monitor at the end of the next seam.

Wind on the bobbin thread.
 The process is described in this Operating manual.



CAUTION:

When winding-on ring 3 must be at the front. Only wind the thread around the bobbin core by hand in the area of reserve groove 2.





1

5.14 HP 13–10 electro-pneumatic rapid stroke adjustment





The sewing-foot stroke and stitch rate are interdependent. The control unit detects what foot-stroke has been set by means of a potentiometer and restricts the speed of rotation accordingly. The values are pre-set in the control unit.

In free seam sections the maximum stroke can be activated while sewing with knee switch 1.



CAUTION: DANGER OF INJURY!

Turn off the main switch! The sewing-foot stroke and rocker switch may only be adjusted with the machine turned off.

Setting the function of the knee switch

The function of the knee switch is activated on the motor with the parameter 138.

Activate the maximum stroke while sewing

 Press knee switch 1.
 Once knee switch 1 is pressed (switch mode) the maximum sewing-foot stroke remains effective until it is switched off by pressing knee switch 1 again (stop mode).

6. Operation of the rupture-seam visualisation facility

The program is operated by touching the appropriate field on the Touch Screen Monitor 1.

Access to the program is protected by three security levels (depending on the security level, not all the fields in the basic screen are available).

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6.1 Access to the system



- The operator is identified by a magnetic bar code card 4. This allows all the operator's data, including his security level, to be stored and directly communicated to the system.
- The manual scanner 3 is used to scan in i.e. read into the system
 the yarns that are to be used and the pieces that are to be sewn.

Logging onto the system

 The operator logs on by wiping his bar code card 4 through the magnetic-card reader 2.

Logging on without a bar code card

- The operator can also log on manually as follows:
- Press the "Access" field.

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-					

- Press the "Access" field.
- Enter name and password.

Logging off

- To log off from the system, press the "Log off" field.



Hint

Users with security level "0" are automatically logged off after two minutes of inactivity.

Registering a new operator or a new bar code card

Before a new operator can work on the sewing unit he must be registered with the system. The registering person must have at least security level 2.

- Log on to the system.
- Press the "Access" field.
- Press the "Access" field.

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- Enter the name of the new operator and state his security level.
- Enter a personnel number if appropriate.
- Enter password
- Confirm password.
- Wipe the bar code card through the magnetic card reader.
- Press the "OK" field.
- Press the "Save" field.

HINT

Each operator can be allocated only one bar code card.

If a bar code card is re-registered, the old entries of the corresponding operator are erased.

Deleting an operator

In order to carry out this operation the user must have security level 2.

- Log on to the system.
- Press the "Access" field.
- Press the "Delete" field.



- Select the operator concerned.
- Press the "Delete operator" field. The operator's details will be deleted.

6.1.1 Advice for the production begin

Check imperatively the system date (see Part 2, chapter 2.2.1).



ATTENTION !

Never change neither the date nor the time when the machine is in operation.

A corresponding warning notice will be displayed on the monitor.

A non-observance of the above will lead to the following consequences:

Any reversing of the date setting will generate a duplicate in the database.
 HINT

In this way it is no longer possible to identify clearly any completed seams.

 Any reversing of the time setting will generate a duplicate in the database.

HINT

In this way it is no longer possible to identify clearly any completed seams.

 The "Seam types" field enables new seam types to be created and existing seam types to be edited or deleted.

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neues Nahtbild	
Nahtbild editieren	
Nahbild kopieren	
Nahtbilder löschen	
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6.2.1 Creating a new seam type

Press the "New seam type" field.
 A list of available seam types with their alteration status is displayed.

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✓ OK				Abbrech

Enter a two-digit or three-digit seam-type code.
 Three-digit seam-types may be created with the software version 550-767A07 and later.



Touch "Seam-type code" field 2.
 The following entry mask is displayed.



- Enter the seam-type code.
- Press the "Return" button.
- Touch "Seam-type name" field 1.
 The following entry mask is displayed.



- Enter a seam-type name.
- Press the "Return" button.
 A list of available seam types with their alteration status is displayed.

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vorhandene Nahlbild		Letzte Anderung
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Press the "OK" field.

The screen containing the seam sections box is displayed.



- Select number of seam sections, e.g. 3. Press the "OK" field. The new seam type screen is displayed. _

And all							12
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- Select the individual seam sections by clicking on them and enter the appropriate seam parameters.



 When the seam parameters for all seam sections have been set, press the "Save seam-types" field.

Inserting a seam section

- Select a seam section in front of which a new section is to be inserted.
- Press the "Insert" field. The following screen is displayed.



Press the "OK" field.

The screen containing the inserted seam type 1 is displayed.

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- Click the new seam section field to select and enter the appropriate seam parameters.
- When the seam parameters have been set, press the "Save seam-types" field.

Deleting a seam section



- Touch the seam section to be deleted.
 For example: Seam section 1.
- Press the "Delete" field.
 The following screen is displayed.



Press the "OK" field. The new seam type screen is displayed.

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Press the "Edit seam type" field. A list of available seam types with their alteration status is displayed.

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- From the list of seam types select the one that is to be edited by clicking on the "Seam-type code" field. _
- Press the "OK" field. _ The new seam type screen is displayed.

Freu/SAD max Destration StLikege Sit Korr Fab. ubs: Likege Antengantege Flaggelabliche Endriseg SAD 2200 Upbil 40 mm/18 100 51 0 mm Falansepsmang oben Siticke Entrasther Fadan 0 3 2 Image 250 c/N 350 c/N 3 0 mm 3 0 mm Zasatcliche Fadansege Habhrites Interlades-ID anterlades-ID anterlade 0 anterlade Stoppent les Interlades Interlades-ID Interlades-ID 3 10 10	Free/SAB mes Destard
Sinche 0 roll 0 Park Sinche 0 0 0 FA sin/hws Massadi	Fadesspanning antes Obee 250 cN 350 cN Zusatchche Fadenings stoppen bes Zeisch g Stacke Massuell

- Call the individual seam sections and make the necessary changes.
- Press the "Save" field.

Press the "Copy seam type" field. A list of available seam types with their alteration status is displayed.



 From the list of seam types select the one that is to be copied by clicking on the "Seam-type code" field.
 For example: Seam type 04.
 The following screen is displayed:

pressing and Parise für serves Habitald Biogeliets	
vorhandene Nahlbilder	Letyte Anderung
01 - Nadificial 001 (62 - Nadificial 002 (03 - Nadificial 003 (04 - Nadificial 003	82 - 20.86.2006 / DEMO 92 - 20.86.2006 / DEMO 93 - 20.86.2006 / DEMO 94 - 20.86.2006 / DEMO
Nabhlidkennung (Nahlbildnamn
✓ок	Abbruck

- Touch the "Seam-type code" field.
- Enter the new seam-type code. For example: 05
- Press the "Return" button.
- Touch the "Seam-type name" field and type the new name.
- Press the "OK" field. The following window is displayed:



Press the "OK" field.
 Seam-type 4 was copied and saved as the new seam type 5.

Press the "Delete seam types" field.
 A list of available seam types with their alteration status is displayed.

Tabibid (see) Indian provident	2
vertnondene Nahlhälder 01 - Nohlhäld 101 12 - Nahlhäld 102 03 - Nahlhäld 103 03 - Nahlhäld 104 05 - Nahlhäld 095	Lette Automag 01 - 20 85 2005 / DE MO 02 - 20 85 2005 / DE MO 03 - 20 85 2005 / DE MO 04 - 20 85 2005 / DE MO 05 - 25 96 2005 / DE MO
Nahihidkasayang	Abbruch

- From the list of seam types select the one that is to be deleted by clicking on the "Seam-type code" field.
 For example: 05 for seam type 5.
- Press the "OK" field.
 A confirmation prompt is displayed.

34	

 Click "Yes" to confirm the prompt. The seam type 05 will be deleted. Completed seams are recorded and the data filed in a database. The "database" field enables these recorded files to be displayed, printed and copied.

i strais	-		
Passa			
Dette	tillease.		1
	Production and a		
1	Productor INT		
941	Neukaland Stat		
100	Hubble HIT		
142	Number of Concession, Name		
Last.	Number of State		
100	Photosoft DE 2		
100	Notice of State		
Here:	Traditional Diff.		
10	Production of the local division of the loca		
HC -	Stational and		
Ru.	and the second second		
		14	
100			
Pilling.		And and a second se	All and a second se
	0 - 5		18.
0	and the fage	e take " fadige	Abbrech
15			
			1

- The required files are selected using the fields 1.

"File" field

A record file is filed every day. It is possible to retrieve and display these files via the "file" field

Press the "File" field.
 The following dialog box is displayed:

Öffnen		and the second second	? X
Suchen in:	SystemDB	• • •	•
Bobbin EltexCali Messages NahtDaten Needles SMCali	SYSTEM Threads		
Dateiname:	Messages		Öffnen
Dateityp:	Protokolldateien		Abbrechen

- Select the required record file and click "Open".

"Print" field

If a printer is connected the selected record file can be printed out using the "Print" field.

"Copy" field

The selected day file is copied into a designated directory.

"Help" field

A list of error codes is displayed (see 6.6).

	Fehlercode-Liste für Software Sollreißnaht Stand : 27.4.04	-	
Fehlercode	Beschreibung		
0.0000	Outterung eines Fahlers durch den Supervisor		
CHILL	Faderspannung prüfen, r.Z. nicht benutzt		
CITED	Erzwungenes Fadenabschneiden in einer Sollreißnaht		
CITRAL	Falsche Fehlermeldung vom Efka Motor bekommen		
ALC: NAME	Falsche Unterladenmeldung vom Elka Motor bekommen		
C1780	Envzungenes Riegeln in einer Sollreißnaht		
T.J. Market	Falscher Riegel in der Naht		
CTUNE	Falsche Shichzählung Motor und PC		
10000	Fadentiß in einer Sollreißnaht		
1.1.20(B)	Fadenspannung zu niedrig in einer Sollreißnaht		
13300	Fadenspannung zu hoch in einer Sollreißnahl		
1 JOURT	Fadenni3 in einer freien Naht		
100000	Fadenspannung zu niedrig in einer freien Naht		
THE OWNER IN COMPANY	Fadenspannung zu hoch in einer freien Naht		
7.30000	Fremdbarcodelabel (Zusatzbarcode) nicht gelesen		
C. C	Hardware-Fehler, Nähmotor DAB2 reagient nicht richtig		1
1. 191	Hardware-Fehler, ELTEX Fadenspannungmelügerät reagiert nicht nichtig		-
1, 192310	Erlaubter Stichbereich wurde unterschritten		OK
L.P.D.L.	Erlaubter Stichbereich wurde überschritten		
1.3 1020	Endlabeibarcode wurde mit Handscanner vom Supervisor falsch gelesen		
531500	Falsches Endlabel wurde ins Teil eingenäht	-1	

"Thread tension" field

File for displaying thread-tension values of each stitch of documented seam sections.

Functions relating to preserving and restoring data, to information about sewing materials and to the testing, adjustment and setting-up of the integrated sewing unit are available through the "Check" field.

Hackup	d System	Direction DDC 4	Label			De	enp Dateinn kopieren.
Restore	d System	Backup Prote	4.08	Dan	 ·		Annohiliese
	-41 Filles	(In Association	DI An	cety.	 	-	1
	+ 18	+			 1		Abres

"Backup system" field

When this function is activated all system-relevant settings are saved to diskette.

"Restore system" field

System-relevant data are read into the system from diskette. The required parameters can be pre-set.



"Print BC Label" field

When this function is activated a barcode label is printed out by the label printer.

Barcode-Nu	mmer		_
Linker Rand	(mm)	Hõhe Bar	ode (Pixel)
0		40	Par

"Backup record database" field

When this function is activated all database records of the work-station are stored under the appropriate machine number. The data are transferred to the ZIP drive.

"Load data" field

Back-up files are loaded loaded from diskette.

"Copy dump files" field

When this function is activated all dump are saved to diskette.

"Connections" field

When this function is activated the computer's connections are listed.

	parallele Schnittstelles
(COM3 = OA Plater)	LPT = Protokolidrucker \$278
(COM4 = DA (Tatine)	LPT - Hansadedracker \$378
(Pyet 5 - Stecker 1 an der Malti-Szeiell-Karte)	
(Part & + Stecker 2 an der Matt Seriet Karte)	
(Part 7 - Stecker 3 an der Multi-Seriell-Karte)	
(Part 8 - Stecker 4 an der Malt-Seriell-Karte)	
(Port S + Slotker 5 an der Multi-Seriell-Karte)	
(Part 18 = Stecker & as der Multi Seriell Karte)	
Part 11 - Stecker 7 an der Multi Seriell-Karte)	
-	
Athenet	
	(CDM3 = OA FRamer) (CDM4 = OA FRamer) (CDM4 = OA FRamer) (Port 5 = Stecker 1 an der Maldi Soniel Kamp) (Port 5 = Stecker 2 an der Maldi Soniel Kamp) (Port 5 = Stecker 3 an der Maldi Soniel Kamp) (Port 5 = Stecker 5 an der Maldi Soniel Kamp) (Port 11 = Stecker 5 an der Maldi Soniel Kamp)

"Setup" field

When this function is activated system settings can be entered.



"General settings"

When this function is activated the language is selected, code numbers for manufacturers and sewing unit are attributed, relevant barcode digits determined and the employed EFKA software is selected.

"Components"

Here the used working materials or functions are activated or deactivated.

"Values"

When this function is activated the scanners are selected, the barcode type for the card-reader is defined and the desired number of barcode digits adjusted.

When the function "Sew label separately" is activated in the field "Components", the number of stitches for the additional seam can be set via the function "Number of stitches of label sewing".

In order to avoid that each thread passing through the light barrier simulates a nick mark <M>[2 or 3 stitches], the response behaviour of the light barrier can be manipulated via the function "Nick-mark identification filter stitches". When setting the value 2, the size of the nick mark must comprise two stitches in order to be identified as such.

Authorization for access to the system can be influenced by changing the user level. The set values indicate the safety levels which are at the very least required for executing the programme function.

In the field "Lot size" the number of sewing procedures, which should be released by a one-time scanning-in of the input barcodes, can be set.

"Barcode" field

Barcode definitions can be modified, saved or loaded via the "Barcode" field.

Masks are placed to determine the relevant barcode digits.

Primie-Barcode-Typ	COD4 39 .			
Fadee Ilarcode Typ	CODL 39			
Prim. Borcode Kennung A	12345678981234567898 [111088847400000000888	Kennung A	Sullwort	-
Print, Barcode Keening II	****115/ \$9000000000	ID Teill	ID Tell 2	ID Test 1
Prim. Darcode Kennung C	****** 10000000000	ID Links	ID rechts	ID Seeat
Prim Elurcode Maske L/N			1	2
Prom. Bercode Meske Label	****			
Maske Bakbgrobe	15			
Reserve				
Cannong Obminden	111119999999999999999888			
Created on the hadrest	*********************			
Obertoden Maske Laber				
Construction Matter Labor	**********			-
Marke Main DC Durch				
	(Issues and a property is		& Laden	1.2
		-		OK
		4	Speichern	
/				

Changing a barcode definition

 Touch the corresponding barcode line 1. The following entry mask is displayed.



- Type the barcode definition.
- Press the "OK" field".
 The new definition is accepted.
- Press the "Save" field.

"Label" field

The layout of the end label can be defined via the "Layout" field. Which barcode information is to be printed is determined here.

Additional information to be printed on the end label can be defined via the "Define additional label information" field.



- **1 Setting the end-label barcode type** See section 6.7.
- 2 Setting the end-label layout See section 6.8.
- 3 Determining the text to be printed out

"Path+Net" field

The function of the "Path+Net" field is to specify the paths to be used when saving the record database and system databases, as well as the interval between automatic saves.

THE REAL PROPERTY OF					
Plad für Protokolldatenbank c:\SabSoft\ProtocDB\				Plat inde	
Plad für Systemdatenbanken C\SabSatt\SystemDD\					
Plad für automatische Kopie Protokolldatenb c\SabSoff/NefWork).	ank			Plad ände	
T Autom. Kopie Protokolidatenbank	Kopie nach	60	min		
	√ 0K				
	√ OK				

"Yarns" field

When this function is activated a database containing the yarns designated for use with the system is displayed.

New yarns can be entered, and existing yarns edited or deleted.



HINT

When a new yarn is entered its identity no. must be entered. This number, which consists of predetermined digits of the thread barcode, enables the system to recognise the yarn.

Registering new yarn

Touch the "New yarn" field.
 The 'yarn database editor' opens.

	8.e	
Fades Harcid		SCAN
Oberinden ID-	/ Unterfeden-ID-	
Faden ID-Nur	ummt	
Faden Name	-	
Foden Horstel	-	
	Anwandung	
	Fer Oberfaden	
	Für Unterfinden	
-		

Type the yarn barcode.

or

- scan-in the yarn barcode.

 Touch the "Scan" field. The following screen is displayed:



- Scan-in the yarn barcode using the hand-held scanner.
- Press the "OK" field".
 The new yarn barcode is accepted.
- Enter further yarn data and press the "OK" field to confirm entries.

"Change yarn" field

The selected yarn can be changed once this function has been activated.

"Delete yarn" field

The selected yarn can be deleted once this function has been activated.

"Print DB" field

When this function is activated the seam database is printed out (only if a printer is connected and activated in the setup).

"Display DB" field

When this function is activated the seam database is opened and all seam parameters are displayed.

Annual States of Contract of	Laff Trees Contraded Life Prays	or Distant Artists	As its	starte false lie	Constitution for	charged and have 1	
) Wate	January Parties	2	1	1	7	22	-
2 Subate			- 8	100	3	32	
2 Sectors	4			- 1	2	22	
2 twiate		2	2	- 1	2	-22	
2 failate	a			100	2	22	
2 telate	4			1	7	22	
2 Way		2			7	-22	
2 10 10				100	7	-22	
Time.				- 1	7	22	
2 Way			-		7	22	
2 island				100	7	22	
2 million					7	22	
- d							
	~						
	100						

"Bobbins" field

All registered bobbins are displayed when this function is activated. Selected bobbins can be deleted using the "Delete" field.

Oppins 16. Factor Extends	Spalarationates .	Enutintimates	-
all Systems and Unserhaltent	motide Spale-telemeters		1
Annual Desidentiation Transmission	a Electrolynomia		

"DB needle" field

If the component "Needle-check" is activated in the set-up, the user will be asked at certain times to check the needle and, if necessary, replace it.

These activities will be recorded in the needle-change database.

"SM-Kali" and "ELTEX-Kali" fields

If the component "Calibration check" is activated in the set-up, the user will be asked at certain times to check and possibly calibrate the settings for the step motor and the ELTEX-thread-tension measuring device.

Both activities will be recorded in the ELTEX and the step-motor calibration database.

See section 6.5: Needle-thread tension tolerance range.

"SM" field

After activating the function, the adjustment of the stitch length can be calibrated and verified.



- Press the "Min." field.
 - The step motor moves to the shortest stitch length.
- Press "Enter 100 stitches+length" field. The following window is displayed.



- Sew test seam.
 - 100 stitches will be sewn.
- Measure stretch.
- Enter the value for the measured stretch, then press the field "8" to confirm.

- Press the "Ref." field.

The step motor will move to an average stitch length.

 Press "Enter 100 stitches+length" field. The following window is displayed.



Sew test seam.

100 stitches will be sewn.

- Measure stretch.
- Enter the value for the measured stretch, then press the field "8" to confirm.
- Press the "Save" field. Calibration will be terminated.

Calibration of the step motor is carried out on thin paper. Since the actual stitch length shortens in relation to an increasing thickness of the material, a correction factor can be set in the seam display, which will take into account the thickness of the sewing material.

"E/A" field

When this function is activated system inputs and outputs can be tested.

Energinge Email Tamit Ta	17.71 17.71 17.71 17.74 17.704 17.704 17.700	SMileler Godopt Spolen Spolen ELTEXE UUT En Pomotei Eamonar	enzi atte status storang too halter attem Nather unten	Anapara Mala Urti Urti Urti Urti State	Goltenmung RC Schalter Statue = 46 Control + CC Statue = 47 Control + FF ckt = 7000 - 65 Spend - 2400 control = 9	:	
LED tot	LED gran	Hubits	HubHZ	Hubiti	Hubre	blasen	2.F.Spg
							Abbruch

"Scanner" field

When this function is activated the barcode-scanner can be tested.

theck Scanner	×
Handscanner	
Barcode-Scanner Oberlader	-
tesen	
Barcode-Scanner Unterfader	
lesen	
BarcodeScanner Nahl	
lesen	
1	-
	Abbruch

"EFKA" field

This function allows all of the functions of the $\ensuremath{\mathsf{EFKA}}\xspace d.c.$ motor to be checked.

The settings made, e.g. initial lock-stitches, final lock-stitches, speed, stitch length, etc., will be transmitted to the control unit by pressing the "Transmit" key and one seam will be released.

KA-theck	and the second			-		×
globale Para	smelet					
0 1	Jaaaj 0-254 Lichtschrankenfilterstiche	30		Stichlange (mm/10)	0 ;	Hubhohe
3 🔹	(bbb) 0-254 Anlangsriegelstiche vorwärts	3		ddd) 0-254 Indriegelstiche vorw	aits	
3 🔹	(ccc) 0-254 Anlangsriegelstiche rückwärt	3	-	cee) 0-254 indragelatiche ruck	mätz	
Parameter fi	in Natitabschnitt					
0 \$	(III) 0-254 Stichzahl für Stichzähling	7		(ii) 7-39 * 10 minimale Geschwi	ndigkeit	h
0 2	(ggg) 0-254 Lichtschrankenausgleichsstin	tue 20		(kk) 2-99 * 100 maximale Geschw	indigkei	
veiter I Stichzä Fußäth LS EIN Endring Endring Anlang Anlang	bei Pedal -2 hlung EIN ung SAB ON pal einfach pil despielt ariegel einfach miegel doppelt	Fader FuBlu	nwisch itung itung nabsc sibnah ubliat beleg lposti taliche	ser EIN am Nahtende EIN in der Naht EIN treifer EIN ang EIN f on in der Naht – Pos Fadenspannung	2	
Zeichen die Lüutstving 10-sasbbcco	zum Motor gesendet wurden: ddawstffaaghtijjik			Stich count = 0 DA82 message =		
N.	4					Abbruch

HINT

Entries can only be made via an external operating panel of the type V810 or V820.

"ELTEX" field

This function is for setting the thread tension in considering pre-set tolerance limits, sewing speed, lifting height and stitch length. See **section 6.5: Needle-thread tension tolerance range**.

Green en unitere P 2 unit	Grenze aben	Shicher 3	min Genethe 76 2 pm SR-Länge	max Gesche 2000 : Hubhithe	area Silche
Spg wösser	1	1			
a contraction of the second					
-					
antzta Spg					
max.					
Ourchachn	1				
		-	_	_	_
T Nahon					Abbruch

Uninterruptible power supply function

The emergency power supply enables the integrated sewing unit to continue in operation for up to 30 minutes even in the event of a power failure.

 If the mains supply fails, a warning message is displayed on the monitor.



 Once this message has been acknowledged, an indication of how long operation can continue with the buffered energy is displayed.



 Shortly before the buffered energy runs out the operator is prompted to shutdown the PC. If this is not done manually, it is carried out automatically in order to avoid the loss of stored data.

"Abort" function

The "Back" function enables the user to return to the "Rupture-seam visualisation" menu.

In monitored seam ranges, the needle-thread tension values are compared during operations with a pre-set tolerance range. If these values deviate from the tolerance range more often than they should, the seam is designated as a bad seam.

Adjusting the thread tension to within the tolerance range

The needle-thread tension value is affected by many factors such as sewing speed, material, sewing yarn, seam range etc. The upper and lower needle-thread tension limits can be set via the "ELTEX" function.

- Press the "Check" field in the "Thread-tension measuring device" window.
- Testen Fadens Testen Fadenspannungsmessgerät min.Geschw. 70 Grenze oben 320 Grenze unten 150 r cN Stiche max.Gesch RPM 1200 RPM * cN 70 St-Länge 40 Hubhöhe Stiche 164 * mm/10 Spg. grösse ٠ g. kleine letzte Spg. 3 CN max and a second and a second s ويرافق ومتحافين والأرصاح والماسي eN Durchschn * 238 Bitte Testnaht nähen 2 Näher
- Press the "ELTEX" field.

 Enter the appropriate values of the rupture seam in both the "Lower limit" and "Upper limit" fields.
 The entered tolerance range is indicated in window 2 within two lines.

1

- Enter the values for minimum and maximum speed.
- Enter stitch length and stroke height.
- Press the "Sew" field.
- Carry out a test seam with thread-cutting.
 The adjusted upper-thread tension is displayed in window 1.?
 It must be within the two lines indicating upper an lower tension.
- Adjust the upper-thread tension, press the "Sew" field and sew another test seam.
- Check the needle-thread tension in window 1.
- The needle-thread tension values of each individual stitch are displayed in field 3.
- The average thread tension value calculated is displayed in the "Average" field 2.

Carry out another test seam. On completion of the seam, the fields 1 must still be displayed in green, otherwise the entries must be adjusted once more.



HINT

It is recommended that the ELTEX device be recalibrated regularly once a year by the manufacturer.

Eltex of Sweden AB					
Box 608					
SE-343 24	ELMHULT				
Sweden					
Telephone: Fax:	+46 (0) 476-4 +46 (0) 476-7	488 00 134 00			
E-mail:	Info-fax:	+46 (0) 47	6-134 00		
E-mail:	info@Telefax	:	+46 (0) 476-	134 00	
E-mail: Internet:	info@eltex.se www.eltex.se	e ;			

EC10000	fault clearance by supervisor
EC20000	check thread tensioner (not in use at present)
EC21000	forced thread-cutting in a rupture seam
EC21500	Received wrong error message from Efka motor
EC21600	Received hook thread message from Efka motor
EC22000	forced bar-tacks in a rupture seam
EC22500	wrong bar-tacking in the seam
EC22600	wrong stitch count, motor and PC
EC23000	thread break in a rupture seam
EC23500	thread tension too low in a rupture seam
EC23600	thread tension too high in a rupture seam
EC25000	thread break in a free seam
EC25500	thread tension too low in a free seam
EC25600	thread tension too high in a free seam
EC26000	unknown barcode label (supplementary barcode) not read
EC27000	hardware fault, DA82 sewing motor not responding properly
EC27500	hardware fault, ELTEX thread-tension measuring device not responding properly
EC28000	below permitted stitch range
EC28000	above permitted stitch range
EC31000	end-label barcode misread by supervisor using manual scanner
EC31500	wrong end label sewn into piece
EC32000	a bobbin containing a prohibited thread was inserted during sewing
EC33000	barcode printer not ready
ECxxxxACK	error "xxxxx" confirmed by supervisor
ECxxxxxCNT	Supervisor has released the piece for further processing despite error 'xxxxx'

The operator must have security level 2 in order to carry out changes in the barcode labelling system.

- Log on to the system.
- Activate "Check" function
- Activate "Setup" function
- Activate "Label" function

ndiabel Test 1 ndiabel Test 2 ndiabel Test 3	(Test) Test)	Endlabel Text links Endlabel Text rechts	kan Ruph
ins Family X Pass Family X 0 mm 40 mm ost Family Pass Family X 10 mm 10 mm 11 Famil 12 Table Family 13 Table Family 14 Family R	Perfection Perfec	Ann Labels Labels Labels 1 25	Entitidant Riversadar Yun Kond IN
arlinus Endlabel-Darc 126/24243	ndu		
NO-Tay Linkin KOMuna Linkin VD-lan Linkin VA-las Kanta U-Las Linkin	VE-Ramanuster 2 milj NO-rozvisetaj 1 milj HE-Rahlberahi Ontani Datest 11 Uniterang katante 1 Mil	Ladae	
Kielunde 2 mility Uniforming 94 (mom. 51 C) Kielunde 2 mility Network 94 (mom. 51 C)		Speichern	
P1 PAdresseducer	CD-Tail programme CD-Tail programme R2. No waters 2 pro-		

The structure of the end-label barcode is displayed in field 1. ?The significance of the predefined codes is as follows:

current day (two-digit);	e.g.: 9.	9 June = 09
current month (two-digit);	e.g.: 9.	9 June = 06
current year (two-digit);	e.g.: 19	99 = 99
current year (four-digit);	e.g.: 19	99 = 1999
number of days in year (three-digit)	; e.g.: 20	February = 051
current hour (two-digit);	e.g.: 8:5	52:13 = 08
current minute (two-digit);	e.g.: 8:5	52:13 = 52
current second (two-digit);	e.g.: 8:5	52:13 = 13
current personnel number (one-	digit);	e.g.: 1234 = 1
current personnel number (two-o	digit);	e.g.: 1234 = 12
current personnel number (three	e-digit);	e.g.: 1234 = 123
current personnel number (four-	digit);	e.g.: 1234 = 1234
current machine number (one-digit);		e.g.: 567 = 5
current machine number (two-digit);		e.g.: 567 = 56
current machine number (three-digit);		e.g.: 567 = 567
manufacturer code (one-digit);		e.g.: 1357 = 1
manufacturer code (two-digit);		e.g.: 1357 = 13
manufacturer code (three-digit);		e.g.: 1357 = 135
manufacturer code (four-digit);		e.g.: 1357 = 1357
daily number of pieces (two-digit	t);	e.g.: 1234 = 34
daily number of pieces (three-dig	git);	e.g.: 1234 = 234
daily number of pieces (four-digi	t);	e.g.: 1234 = 1234
	current day (two-digit); current month (two-digit); current year (two-digit); current year (four-digit); number of days in year (three-digit) current hour (two-digit); current minute (two-digit); current second (two-digit); current personnel number (one-di- current personnel number (two-di- current personnel number (three- current personnel number (four- current machine number (four- current machine number (two-di- current machine number (three- manufacturer code (one-digit); manufacturer code (two-digit); manufacturer code (three-digit); manufacturer code (four-digit); daily number of pieces (two-digit);	current day (two-digit); e.g.: 9. current month (two-digit); e.g.: 9. current year (two-digit); e.g.: 19 current year (four-digit); e.g.: 19 number of days in year (three-digit); e.g.: 20 current hour (two-digit); e.g.: 8:5 current minute (two-digit); e.g.: 8:5 current second (two-digit); e.g.: 8:5 current personnel number (one-digit); current personnel number (three-digit); current personnel number (three-digit); current personnel number (three-digit); current machine number (four-digit); current machine number (two-digit); current machine number (three-digit); manufacturer code (one-digit); manufacturer code (two-digit); daily number of pieces (two-digit); daily number of pieces (three-digit);

N5	daily number of pieces (five-digit);	e.g.: 12345 = 12345		
N6	daily number of pieces (six-digit);	e.g.: 123456 = 123456		
СР	the number of digits and the coding are defined by the mask specified under "Prim. barcode mask label". 1 = digit is accepted; 0 = digit is ignored.			
TU	the number of digits and the coding are defined by the mask specified under "Needle-thread mask label". 1 = digit is accepted; 0 = digit is ignored.			
TU	the number of digits and the coding a mask specified under "hook-thread m 1 = digit is accepted; 0 = digit is igno	are defined by the nask label". red.		
WE	calendar week (1 – 53)			
WD	weekday from 1 = Sunday to 7 = Satu	urday		
MB	element of multi-barcode			
КΧ	constant sign			
LR	Identifier left/right/L/R/U			
LN	Identifier left/right 0/1/2			
SN	Screen type number			
Y1	Year 1-digit			
CQ	Part I primary barcode			
CR	Part II primary barcode			
R2R8	Resident counter			

In accordance with the end-label barcode structure in field 1 the following information is displayed in the endlabel barcode:

- number of days in year (J3)
- current year in two-digit display(Y2)
- Three-digit part number (N3)
- three-digit display of personnel number (P3)
- Three-digit machine number (E3)
- Three-digit manufacturer code (F3)

Extended label printing (EXTLabel.txt)

This option allows the information compiled on the list to be printed additionally on the end label.

The desired information is placed on the end label by means of a defined programme line.

When the extended label-print is activated, the information will always be printed on the specified places, independent of the loaded barcode set-up file.

***** 550-767 * This is the extended label printing set-up file for customer specific printing. * Format of the control lines: POSX, POSY, FONT, DESCRIBING TEXT, INFO-CODE Each line, which has a "*" as first character is ignored. * Avaible Info-Codes: MB1 - MB9 : scanned multi barcodes 1 - 9 ONM operator name 2 OPN operator personel number manufacturer code FAB 1 MAC machine number 1 needle thread barcode TRN 2 bobbin thread barcode TRB 1 DPC daily piece number 2 ERC actual error code SNM seam record name 1 SRN seam record number 00-99 DAT date TIM time BON bobbin number PB1,PB2,PB3: parts barcode 1,2,3 SRT text from the seam record CYN cycle number JDY Julean day with three digits YR2 actual year with last two digits actual year with lastfour digits YR4 DAY actual day with two digits ŝ MON actual month with two digits DNF daily piece count formatted four digits

54,14,2,	,DNF
61,14,2,	, MAC
65,14,2,	, YR2
69,14,2,	, JDY

The operator must have security level 2 in order to carry out changes in the barcode labelling system.

- Log on to the system.
- Activate "Check" function
- Activate "Setup" function
- Activate "Label" function



- Enter the required height of the label in the "Label length" field.
 e.g.: 25 mm
- Enter the gap between labels in the "Gap" field.
 e.g.: 3 mm
- Enter the required label texts in fields 1,
 - e.g.: end-label text 1 = manufacturer
 - end-label text 2 = model
 - end-label text left = left-hand seat
 - end-label text right = right-hand seat
- Set the origin for the text coordinates in fields 2.
- Set the position of end-label text 1 in the "Pos. text 1 X" and "Pos. text 1 Y" fields.
- Set the position of end-label text 2 in the "Pos. text 2 X" and "Pos. text 2 Y" fields.
- Set the position of the barcode in the "Pos. BC X" and "Pos. BC Y" fields.
- The required font can be set in field 3.
- To print the label, press button 4 prints out the label.



6.9 Adjusting barcode definitions

The operator must have security level 2 in order to carry out changes in the barcode labelling system.

- Log on to the system.
- Activate "Check" function
- Activate "Setup" function
- Activate the "Extended" function.
- Select the required type in the "Primary barcode type" field. This barcode is read into the system by the manual scanner.
- Select the required type in the "Thread-barcode type" field. The selection applies to both the upper and hook threads.
- Select the required type in the "End-label barcode type" field.
- Masks can be set in the "Primary-barcode identifier A" (material and colour barcode), "Primary-barcode identifier B" (upper and lower piece barcode), "Primary-barcode identifier C" (stitch type barcode) and "Primary-barcode mask L/R" (left and right-piece barcode) fields to pass on system-relevant information (entry: "1") or ignore unimportant information (entry: "0").

E.g.:

- Primary barcode: (scanned in by manual scanner) 11112233001234567890
- Primary-barcode identifier in the "Primary- barcode identifier A" field (material and colour barcode): 1111000000000000000
- ID number: 1111

If only pieces with the ID number "1111" are to be processed, this number can be entered in the "Identifier A set value" field. If pieces with various different ID numbers are to be processed, the "Identifier A set value" field must remain blank.

+ feer + manner	Test		Endiabel Text li	nka	Latt
Indiabel Test 2	1ent?		Endlabel Text n	achts -	Hught
Endlabel Text 3	Test				
No. Test) X Hon Test) X No. Test) Y No. T	Pos. Test3 X 40 mm Pos. Test3 Y 15 mm	PesL/RX 5 am PesL/RY 5 am L/R fami 3	And Labelet Linge Label 1 25 mm Richtung 0 P mm	PostBC X 5 mm PostBC Y 20 mm Hiller 10 mm	Endlabel Bincode-Typ cod6:19 •
telbos Endlabel-Borco D2H2V2N3 D2-Tes2 orlig	de VE-taméneo	core 2 config			
MC-Manuel 2 relig MC-Matatemp 1 relig: V2-VpM 2 relig MC-Manuel 2 relies: V2-VpM 2 relig: CV-Manuel 2 relies: VC V2-VpM 2 relig: CV-Manuel 2 relies: VC V2-VpM 2 relig: CV-Manuel 2 relies: VC V2-VpM 2 relig: VC V2-VpM 2 r		1	Laden	Le Lighthad adverse	
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The provide a setting The Target State 3 setting 102-States 7 setting 102-States 7 setting 102-States and 2 setting 102-States and 2 setting 102-States and 2 setting	Uni-Ramong Internet State	un-antin (61)/2		Speichern	

- The "Primary-barcode identifier B" field determines the piece type, i.e. whether it is an upper, middle or lower piece.

E.g.:

- Primary barcode: (scanned in by manual scanner) 11112233001234567890
- Primary-barcode identifier in the "Primary- barcode identifier B": 0000110000000000000
- ID number:
 22
- The ID number must be defined in one of the "ID part 1", ID part 2" and "ID part 3" fields. It is impossible to enter the same ID number in more than one field.
- Sewing parameters are set with the "Primary-barcode identifier C" field. E.g.:
- Primary barcode: (scanned in by manual scanner) 11112233001234567890
- Primary-barcode identifier in the "Primary- barcode identifier C": 000000110000000000
- ID number: 33

The ID number is used to retrieve the parameters from the database (here: stitch type with ID number 33).

HINT

From the software version 550-767A07 onwards, 3-digit seam displays can be generated. It should be remembered that with identifier C three digits have to be occupied and that the 2-digit seam displays are no longer available.

Three-digit seam displays shall be provided with a seam-display identification between 100 and 999 (identifications between 001 and 099 are not permitted).

 The "Prim. barcode mask L/R" field determines whether it is a right or left-hand seat.

E.g.:

- Primary barcode: (scanned in by manual scanner) 11112233001234567890
- Primary-barcode identifier in the "Primary- barcode mask L/R" field: 0000000011000000000
- ID number: 00
- The ID number must be defined in the "ID left" or "ID right" fields.

Example with two pieces:

11112233001234567890	11112333001234567890
"Primary -barcode identifier A":	
1111000000000000000	11110000000000000000
ID number:	
1111	1111
The ID numbers are the same = OK.	
11112233001234567890	11112333001234567890
"Primary -barcode identifier B":	
0000110000000000000	00001100000000000000
ID number:	
22	23
The ID numbers are different = OK. The piece with ID number 22 is the up lower layer.	per layer, ID number 23 is the
11112233001234567890	11112333001234567890
"Primary -barcode identifier C":	
0000001100000000000	00000011000000000000
ID number:	
33	33
The ID numbers are the same = OK. The sewing parameters no. 33 are rea	d from the database.

11	112233001234567890	11112333001234567890
"P	rimary barcode mask L/R" field:	
00	00000011000000000	0000000110000000000
ID	number:	
00)	00
Th A Th	ne ID numbers are the same = OK right-hand seat is sewn. ne text for a right-hand seat is printed on t	he end label.
-	Via the "Primary-barcode mask label" fi initial barcode can be printed on the end	ield, information from the d label.

- How many additional barcodes (multi-barcode) shall be scanned in and stored is determined via the "Multi-barcode mask number" field.
 The desired number will be realized by selecting the appropriate digits of the primary barcode.
- Information from the multi-barcode can be printed on the end-label via the "Multi-BC Print Mask" field (refer to "MB" information code, section 6.7).

7. Sewing



CAUTION:

Sewing may only be carried out on a fully-assembled sewing ?unit with all protective devices fitted!



Switching on the sewing unit

- Press button 3 (lamp 4 flashes)
- = Wait until lamp 4 lights up.
- Turn on main switches 1 and 2.
 Windows is loaded and the program "Soll.exe" activated.
 The sewing unit is tested and initialised.
- Scan in the needle-thread cone if appropriate.
- Scan in the hook-thread cone if appropriate.



- Enter the bobbin number (engraved on the bobbin).



Logging onto the system

- The operator logs on by wiping his bar code card through the magnetic-card reader.
- The operator can also log on manually as follows:
- Press the "Access" field.
- Press the "Log on" field.
- Enter name and password.



Sewing can only begin if the system start and scanning of the needle-thread cone, hook-thread cone and bobbin were faultless. Failing this the system is not ready for sewing, and an error message will be displayed.

Sewing

- Press the "Sewing" field.
- Scan in the pieces to be sewn.
 Up to nine (9) more barcodes can be defined in advance.
 All previously defined barcodes must be read in.



- The seam ranges can be sewn.
 Odd-numbered seam ranges are unmonitored, the diode on the stop lights up green. In the even-numbered (monitored) seam ranges the diode lights up red.
- If an error occurs in a monitored seam section an error message is displayed.



- Sewing is blocked to operators with security level 0.
- Users with security level 1 or 2 can remove the block by logging onto the system by means of the magnetic card and then pressing the "Continue" field.



A label scanner 1 can be fitted to the head of the sewing unit as an optional extra.



- At the end of the seam the scanner checks whether the correct barcode label has been sewn on.
- If the label is not recognised a reminder appears, followed by this warning:



- Users with security level 1 or 2 can scan-in the label manually after the seam end or print out a new label.



8. Maintenance



8.1 Cleaning

HINT

A clean sewing unit is a trouble-free sewing unit!

- Clean the hook area, thread cutter, needle plate, feeder and sewing head every day to remove fluff, fragments of yarn and other cutting waste!
- Clean the oil collector daily!



Check the water level in the pressure regulator every day. The water level must not rise as far as filter insert 2. After screwing in drain screw 3 blow out the water from the water separator 1 under pressure.



CAUTION: DANGER OF INJURY!

Oil can cause skin eruptions.

Avoid protracted contact with the skin.

In the event of contact, thoroughly wash the affected area!



CAUTION:

The handling and disposal of mineral oils is subject to legal regulation. Deliver used oil to an authorised collection point! Protect your environment: take care not to spill oil!

Top up the oil reservoir using **DA-10** lubricating oil or an equivalent oil with the following specification only:

- Viscosity at 40°C: 10 mm/s²/s
- Flashpoint: 150°C

DA-10This oil is available from **DÜRKOPP ADLER AG** retail outlets under the following part numbers:

250-ml container:	9047 000011
2-litre container: 5-litre container:	9047 000012 9047 000013 9047 000014



- Unscrew the oil-filler cap 2 and top up with oil.
- Check the oil level at sight glass 1.
 The oil level must be between " EMPTY " und " FULL".
- Replace oil-filler cap 2.
- Remove any oil which has overflowed into the oil collector.