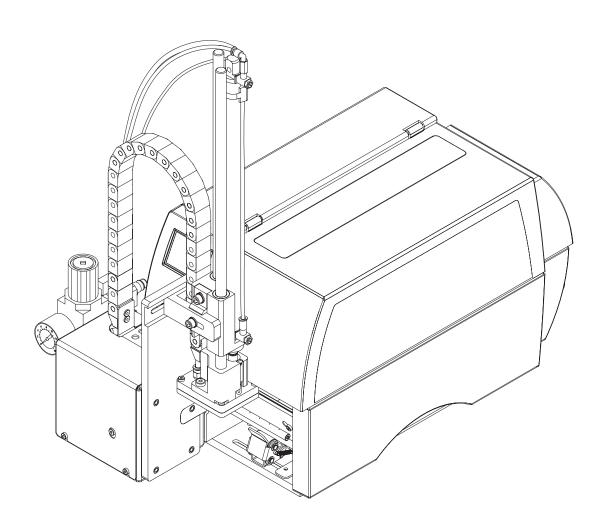
Service Manual





Applicator A 1000

for the following products

Family
A 1000

Edition: 6/2008 - Part No. 9008703

Copyright

This documentation as well as translation hereof are property of cab Produkttechnik GmbH & Co. KG.

The replication, conversion, duplication or divulgement of the whole manual or parts of it for other intentions than its original intended purpose demand the previous written authorization by cab.

Trademark

Centronics® is a registered trademark of the Data Computer Corporation.

Microsoft® is a registered trademark of the Microsoft Corporation.

Windows 2000®, 2003®, XP® are registered trademarks of the Microsoft Corporation.

 $\mathsf{TrueType}^{\mathsf{TM}} \ \mathsf{is} \ \mathsf{a} \ \mathsf{registered} \ \mathsf{trademark} \ \mathsf{of} \ \mathsf{Apple} \ \mathsf{Computer}, \ \mathsf{Inc}.$

Editor

Regarding questions or comments please contact cab Produkttechnik GmbH & Co. KG.

Topicality

Due to the constant further development of our products discrepancies between documentation and product can occur. Please check www.cab.de for the latest update.

Terms and conditions

Deliveries and performances are effected under the General conditions of sale of cab.

Germany

cab Produkttechnik
GmbH & Co KG
Postfach 1904
D-76007 Karlsruhe
Wilhelm-Schickard-Str. 14
D-76131 Karlsruhe
Telefon +49 721 6626-0
Telefax +49 721 6626-249
www.cab.de
info@cab.de

France

cab technologies s.a.r.l. Z.A. Nord du Val de Moder F-67350 Niedermodern Téléphone +33 388 722 501 www.cab-technologies.fr info@cab-technologies.fr

USA

cab Technology Inc.
90 Progress Avenue Unit #2
Tyngsboro MA, 01879
Phone +1 978 649 0293
www.cabtechn.com
info@cabtechn.com

Asia 亞洲分公司 希愛比科技股份有限公司 cab Technology Co, Ltd. 台灣台北縣板橋市 民生路一段33號十九樓之一 19F-1, No. 33, Sec. 1, Min Sheng Road Panchiao 220, Taipei, Taiwan, R.O.C. 電話 Phone +886 2 2950 9185 網址 www.cabasia.net 詢問 cabasia@cabgmbh.com

Other subsidiaries on request.

Table of Contents

1	Introduction	4
1.1	Instructions	4
1.2	Safety Instructions	4
1.3	Environment	5
2	Product Description	6
2.1	Device Overview	6
2.2	Function	
2.2.1	Sensor	8
2.2.2	Pneumatic	
2.2.3	Elektronics / PCB Labelling Contriol	11
3	Maintenance / Cleaning	
3.1	Tools	12
3.2	Cleaning	12
4	Replace Assembly Units	
4.1	Instructions for sticking Slide Foil onto the Pad	
4.2	Replace Valves	
4.3	Replace PCB Applicator Control	
4.4	Replace Controller	
4.5	Replace Cylinder	
4.6	Replace Cylinder-Sensor	17
5	Troubleshooting and Fault Clearance	
5.1	Sensor Labeling Position / Sensor Start Position	
5.2	Function of the LED's in the Applicator Electronics	
5.3	Pressure Measurement	
5.4	Error Indication	20
6	Block Diagram	22
7	Pneumatic Drawing	23
8	Circuit Diagram PCB Applicator Control	24
9	Terminal Diagram PCB Applicator Control	27
10	Circuit Diagram PCB Applicator Interfaces	28
11	Terminal Diagram PCB Applicator Interfaces	29
12	Cicuit Diagram Valve Block	29
13	Index	30

1 Introduction 4

1.1 Instructions

Important information and instructions in this documentation are designated as follows:



Danger!

Draws your attention to an exceptionally grave, impending danger to your health or life.



Warning!

Indicates a hazardous situation that could lead to injuries or material damage.



Attention!

Draws attention to possible dangers, material damage or loss of quality.



Notice!

Gives you tips. They make a working sequence easier or draw attention to important working processes.



Environment!

Gives you tips on protecting the environment.

- ▶ Handling instruction
- Reference to section, position, illustration number or document.
- * Option (accessories, peripheral equipment, special fittings).

1.2 Safety Instructions

- Connect the applicator to other devices only which carry safety extra-low voltage.
- Switch off in case off connecting or disconnecting some devices (computer, printer and accessories)
- · The applicator is only to use in a dry environment. No wetness seems like splash water, fog and other.



Warning!

Attend that the printer power supply is disconnected and the compressed air supply is closed before starts the mounting works.



Warning!

In the applicator operation are moving parts open. Particularly in the pad area between the ground and labeling position.

Don't reach into this area in case of operation. Save hairs, loosely wear and emblazonments. Close the compressed air supply in case of necessary works.



Warning!

Don't make manipulation at the device which doesn't described in the printer and applicator manuals.

1 Introduction

1.3 **Environment**

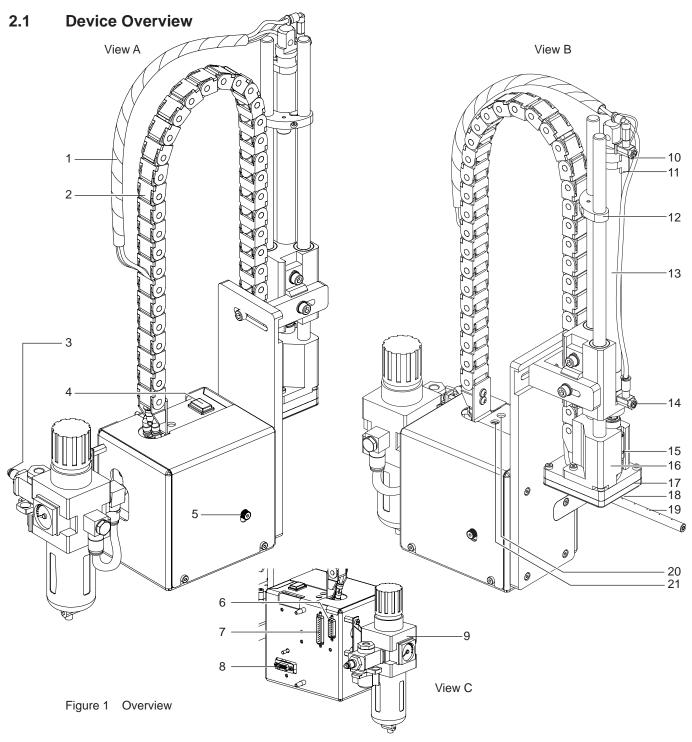


Obsolete devices contain valuable recyclable materials that should be sent for recycling.

► Send to suitable collection points, separately from residual waste.

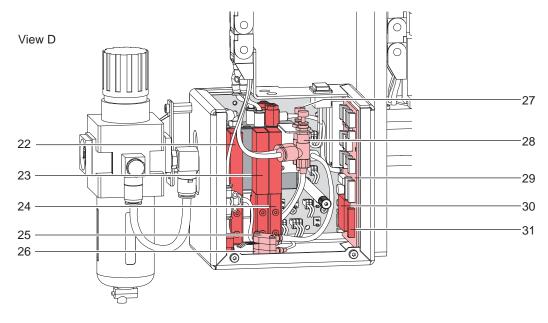
The modular construction of the printer enables it to be easily disassembled into its component parts.

► Send the parts for recycling.



- 1 Tube
- 2 Energy Track
- 3 Connector Compressed Air
- 4 Pre-dispense Key
- 5 Knurled Screw
- 6 PLC-Interface (15-Pin)
- 7 PLC-Interface(25-Pin)
- 8 Connector Applicator Printer
- 9 Pneumatic Maintenance Unit
- 10 Throttle Valve lift Cylinder (top)
- 11 Sensor obere Endlage

- 12 Stopper
- 13 Lift Cylinder
- 14 Throttle Valve Lift Cylinder (bottom)
- 15 Labelling Sensor
- 16 Pad Retainer
- 17 Top Plate (* customized)
- 18 Pad (* customized)
- 19 Blasrohr (* kundenspezifisch)
- 20 Throttle Valve Vacuum
- 21 Throttle Valve Support Air



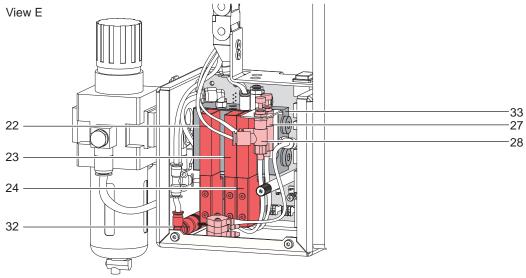


Figure 2 Overview

- 22 Valve Lift Cylinder
- 23 Valve Blow Air
- 24 Valve Vacuum / Support Air
- 25 Ressure Sensor
- 26 Vakuumsensor
- 27 Miniatur Pressure RegulatorLift Cylinder out
- 28 Miniatur Pressure Regulator Lift Cylinder in

- 29 PCB Labeleling Control
- 30 Controller 1
- 31 Controller 2
- 32 Vacuum Generator
- 33 Valve Block

Product Description

2.2 Function

2.2.1 Sensor

Sensor labeling position

The contact of the pad onto the product or the reaching of the release position is detected by a Hall-sensor. For which purpose the displacement of the adapter bolt in relation to the sensor is used.

Sensor Start Position

The start position is the upper end position of cylinder and the position of the pad which takeover the label from printer. This position will detected via a Hall-sensor in interaction with a magnet mounted inside cylinder.

Sensor Vacuum

The correct transfer of a label will checked by the vacuum sensor. It also check that there is no longer a label on the pad in case the return movement.

Pressure Sensor

The pressure sensor controlls the pressure air.

2.2.2 Pneumatic

Cylinder

A cylinder with stroke of 100-400 mm is used for the transport of labels between the dispense edge of the printer and the labelling position. It will controlled by the "cylinder" valve. The speed of movement can be changed by two throttle valves mounted at cylinder.

Pad

The label will be transported by a pad. The pad must be appropriate to the size of label. The pad assembly and cylinder are conjoint and it will range by the cylinder.

In case of a label transportation it's a vacuum applied on the pad.

When the applicator will used in 'blow' mode, the label will be apply by a high pressure.

Vacuum Generator

The vacuum at the pad will produced by a vacuum generator. The vacuum generator is controlled by the vacuum valve "Vakuum". It's possible to adjust the low pressure by a throttle valve.

Blow Tube

Air is blown from below (supporting air) trough a blow tube onto the label in order to support the transfer of the label from the printer to the pad. It's possible to adjust he direction of the blast. The supporting air is switched on by the supporting air valve "Stützluft"

Pneumatic Maintenance Unit

The pneumatic maintenance unit is offered as an option for the applicator. The important components of the pneumatic maintenance unit are a pressure reducer with manometer, a water separator with micro filter and a main connector for compressed air

Valve Block

The distribution of the compressed air to the various pneumatic units is made in the valve block

2 Product Description

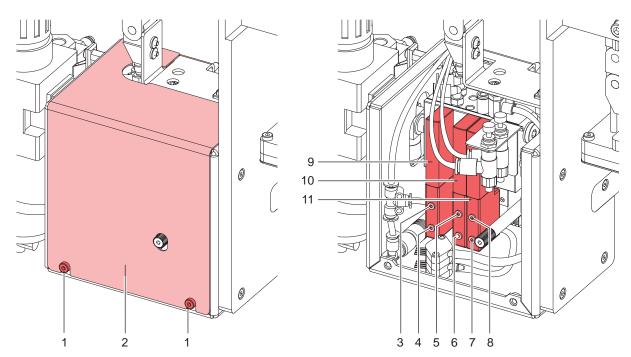


Figure 3 Dismount cover

Figure 4 Pneumatic control valves

Valves

For control and adjust works its possible tostrat a valve direct by hand via an integrated key. You can see the valves only with dismounted cover.

▶ Loosen screws (1) and remove cover (2).

Via integrated Keys (3-8) you can switch the pneumatic valves by hand.

Three way valve (9) to control the lift cylinder

Is the printer switched on the valve will be electronical conrolled and the pad will move to the start position and hold on this place. In case of switching the valve the pad will move to the labelling position. In normal labelling operation the valve switched again afte the signal of the labelling sensor.



Notice!

The manually control of the valves is only possible when the printer is switched off.

When switching the valve via the key 3 the pad will moved down to the most bottom position. It doesn't use the stop signal from the labelling sensor.

Switch key 4 and the pad will move up.

Double two way valve (10) to control the blow air

In the operation mode "blow" the label will blow on the product trough switch on the blow air on the pad. in the operation modes "stamp" and "roll on" will start the blow air for a short time in the movement back to the start position to clean all holes in the pad.

For all described function the both integarted valves will swiched parallel.

When switching the valves (blow air) manually by key 5 and 6 there used only one of the two integrated valves.

Double two way valve (11) to control the vacuum / support air

The both internal valves attend to switch on the vacuum generator, to create a depression on the pad and indipendent of there to control the support air on the blow tube.

Key 7 swiched the support air and key 8 the vacuum.

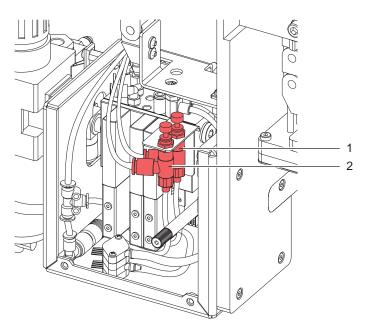


Figure 5 Miniature pressure regulator

Miniature pressure regulator

After removing the cover it's possible to see two miniature pressure regulator (1, 2). With adjusting of these regulators it's possible to reduce the pressure in the chambers of the lift cylinder.

Valve 1 limited the pressure for the upper chamber of the lift cylinder.

Valve 2 limited the pressure for the lowerr chamber of the lift cylinder.



Attention!

the both valves are adjusted to a pressure of 0,25 MPa (2,5 bar) and sealed. This reduce the maximum speed of the pad movement and minimize the risk of injury.

Otherwise gives this setting a guarantee for the corect operation, with havy pads as well.

► Don't change adjustments!

2 Product Description

2.2.3 Elektronics / PCB Labelling Contriol

The electronics are supplied with both operating voltages 5 V and 24 V via the printers peripheral interface.

Function of the most important components

PCB Applicator Control

LED 1	Label on pad yellow - in active condition: LED on
LED 2	Operating voltage 5 V yellow - in active condition: LED ON
LED 3 - LED 6	Status of external Signals via PLC-Interface ▷ Operator's Manual "Applicator A 1000", PLC-Interface
LED 7	no function
IC 1	Controller to operate the internal procedures, to realize PLC interface and contains the applicator firmware.
IC 2	Controller to implement the SPI interface (logical connection to the printer).

Table 1 Components on PCB

Maintenance / Cleaning

3.1 Tools

All tools you need for repair the applicator.

Tools	Size	for Assemblies
combination wrench	5,5 mm	cylinder plunger
	9,0 mm	throttle valve
	10,0 mm	guide rod
	14,0 mm	L-connector (valve block > pneumatic maintenance unit)
	20,0 mm	lift cylinder
hexagon wrench	2,0 mm	valve block, energy track
	2,5 mm	PCB
	5,0 mm	adjustment guiding block
screwdriver for slotted screws	2,5 mm	throttle valves
crosstip screwdriver	PH0	valves on the valve block
	PH2	Sensoren (Aufschlagsensor, obere Endlage)
PLCC-Extractor cab-PartNo.: 8920001		changing controller 1
wrist grounding		for works at PCB and controller
manometer	to 5 bar	pressure measurement
soft brush, cloth, multi purpose cleaner (without solvent))		

Table 2 Tools and their purpose



Attention!

Pull tubes (1) at pneumatic connectors only if the releasing ring (2) pressed. (Figure 6 right).

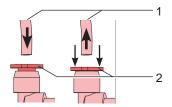


Figure 6 Push (left) and pull (right) of tubes

3.2 Cleaning



Attention!

Never use solvent and abrasive.

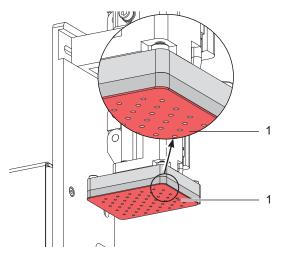


Figure 7 Pad with slide foil

- ► Clean the outside surfaces with multi purpose cleaner.
- In regularly function it's possible that accrue dust particles and label splits. Remove that by a soft brush or/and a vacuum cleaner.
- ► Especially at slide foil (1) it's possible that fouling deposit.

To receive an ideal takeover and handling of the label it's necessary to clean the surface of slide foil at regular intervals.

To divide on the mother plate to arrive it's necessary to dismount the cover. Before the regular work will start it's absolutely necessary to mount the cover again.



Warning!

Attend that the printer power supply is disconnected and the compressed air supply is closed before starts the mounting works.

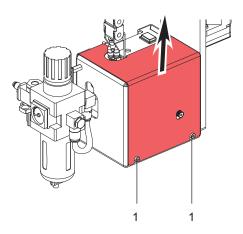


Figure 8 Cover mount and dismount

Dismount Cover

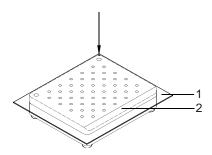
- 1. Loosen screws (1).
- 2. Remove cover in direction of arrow.



Attention!

Mount the cover agin before you start the normal operation!

4.1 Instructions for sticking Slide Foil onto the Pad



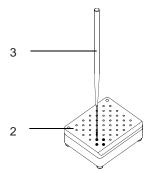


Figure 9 Sticking the slide foil /Punching the holes

- 1. Dismount the pad unit.
- 2. Make a note of the hole pattern on the slide foil.
- 3. Remove the slide foil completely.
- 4. Clear the surface from remains of glue.
- 5. Remove covering foil from the slide foil.
- 6. Put the slide foil (1) with its adhesive side onto the pad (2).
- 7. Press the slide foil firmly on the pad.
- 8. Cut off those parts of the slide foil (1) (along the broken line) that jut out over the edge of the pad (2).
- 9. Punch the slide foil on the pad (2) using the punch pin (3) appropriate to the hole pattern on the wearing slide foil.
- 10. Punch the hole completely by turning the pin.
- 11. Mount the pad unit.

4.2 Replace Valves



Warning!

Attend that the printer power supply is disconnected and the compressed air supply is closed before starts the mounting works.

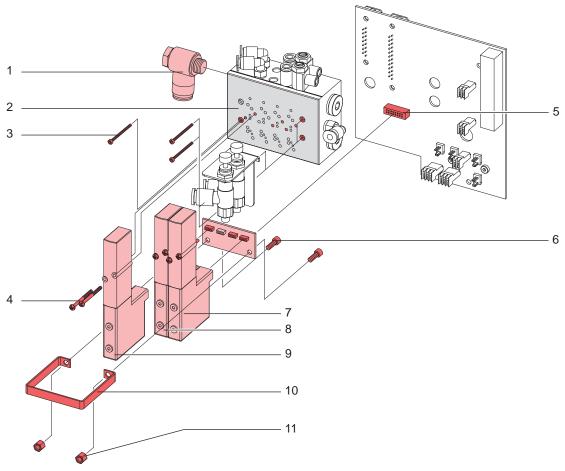


Figure 10 Replace valves

- 1. Pull off tubes from valve block (2).
- 2. Dismount push-in L-connector (1).
- 3. Dismount vacuum- and pressure sensor from the base plate.
- 4. Loosen screws (3) to dismount the valve block. Pull the Valveblock from the connector (5) on the PCB.
- 5. Loosen screws (6) on the bracket (10) and the PCB valve block and remove teh bracket (10).
- 6. Screws (4) loosen of the valve (7, 8 or 9) which can be changed.
- 7. Attach the bracket (10) and the PCB valve block withe screws (6) and screw nuts (11). Tighten it.
- 8. Attach the valve block (2) so that plug in connector tuck into the socket (5) on the PCB applicator interfaces.
- 9. Tighten screws (3) to fix the valve block.
- 10. Mount push-in L-connector (1) and attach all tubes again.
- 11. Mount the vacuum- and pressure sensor.

4.3 Replace PCB Applicator Control

Attention!

Protection against electrostatic discharge before work -> grounding

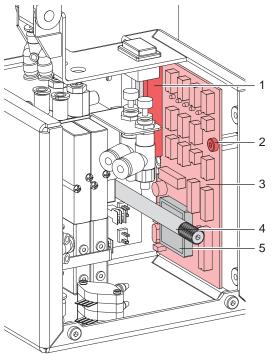


Figure 11 Replace the PCB applicator control

- 1. Pull the knurled screw (4) and turn it counterclockwise until the screw found the winding and turn it out.
- 2. loosen screw (2).
- 3. Detach PCB applicator control (3) from connector (1).
- 4. Change PCB (3) or controller (5).
- 5. Attach.PCB (3) again via the connector (1).
- 6. Tighten screw (2).
- 7. Turn in the knurled screw (4) until it turned free.

Replace Controller

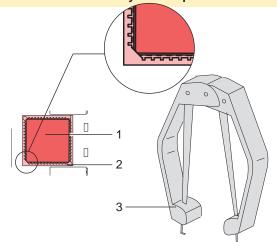
4.4

Attention!

Protection against electrostatic discharge before work → grounding

Attention!

Remove controller only with a special tool



- 4. Mount PCB again, like described in chapter 4.3
- 3. Put in the controller (1). See at the marker on socket and controller.

Dismount the PCB, like described in chapter 4.3.
 Pull off the controller (1) with a PLCC-extractor (3) from

bevel edge controller → bevel edge socket

the socket (2).

•

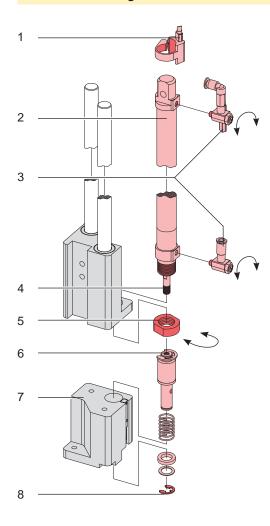
Figure 12 Change controller

4.5 Replace Cylinder



Warning!

Attend that the printer power supply is disconnected and the compressed air supply is closed before starts the mounting works.



- 1. Dismount sensor start position with mounting clip (1) and pull off tubes from cylinder (2).
- 2. Unscrew throttle valves (3) from cylinder.
- 3. Remove locking washer (8) and takeout the other both flat washers.
- 4. Pull the guiding with mounted pad downwards from the adapter bolt (6) and take out the spring.
- 5. Afterwards unscrew the plunger (4) from adapter bolt (6) with combination wrench 5,5 mm. Use the drilling into the adapter bolt (6) to lock it.
- 6. After loosening the screw nut (5) takeout the cylinder (2).
- 7. Put in new cylinder (2) and fix it with screw nut (5).
- 8. Screw the adapter bolt (6) to the plunger (4).
- Attach the spring into the guiding and the adapter bolt (6)
 also from the other side and push up the pad assembly.
 Attach the washers and fix these by the locking washer (8).
- 10. Mount throttle valve (43) again.
- 11. Mount sensor (1) and tubes again.

Figure 13 Replace the lift cylinder

4.6 Replace Cylinder-Sensor



Warning!

Attend that the printer power supply is disconnected and the compressed air supply is closed before starts the mounting works.

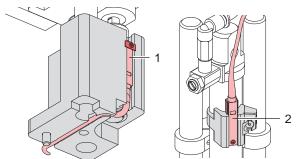


Figure 14 Sensor labeling position / Sensor start position

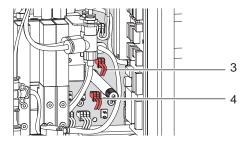


Figure 15 Slots of sensors

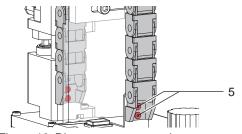


Figure 16 Dismount energy track - Sensor labeling position

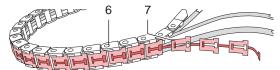


Figure 17 Open the energy track

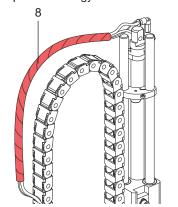


Figure 18 Spiral cable conduit - Sensor start position

- 1. Dismount the cover.
- 2. Ditach the connector from sensor which can be changed.

slot CON 8 (3) → sensor start position (2) slot CON 6 (4) → sensor labeling position (1)

Sensor labeling position (1)

- Loosen screws (5) to dismount the energy track on one side only.
- ▶ Detach the into one another looked divide in T-form (7) from the divide in U-form (6) of the energy track. (Figure 16)
- ▶ Pull out the dismounted sensor.
- Replace the sensor.
- ► Close the energy track again. Press in the T-form (7) pieces into the U-form (6) pieces.
- ▶ Mount the energy track and tighten the screws (5).

Sensor start position (2)

- Unwrap cable and tubes from the spiral cable conduit (8).
- ▶ Dismount the sensor 'start position' and replace it .
- ► Wrap cable and tubes from the spiral cable conduit (8) again.
- 5. Mounting the sensors on board side in reverse order, like described in the first paragraphs.

After replacing a sensor it's necessary to adjust the sensor position new.

Described in chapter 5.1.

5.1

Sensor Labeling Position / Sensor Start Position

Sensor labeling position and sensor start position shown their initiation by integrated LED's. In case of activation the LED's will glow.

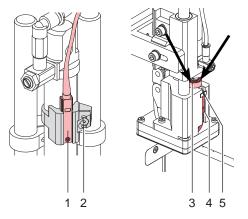


Figure 19 Sensor adjustments

Adjustment Sensor Start Position (1)

- 1. Ease the locking ring by loosen the screw (2).
- 2. Compressed air supply open.
- 3. Printer switch on → cylinder will be retracted (start
- Move the locking ring so that the LED glow.
- 5. Fix the position of the sensor via tighten the ring (2)

Adjustment Sensor Labeling Position(4)

- 1. Ease screw (5) and printer switch on.
- 2. move so the sensor that the LED will glow if the Adaptterbolt (3) is preesd approx. 5 mm into the pad assembly.

5.2 Function of the LED's in the Applicator Electronics

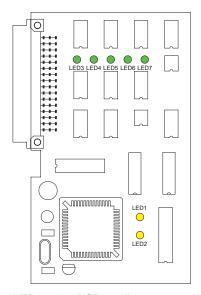


Figure 20 LED on the PCB applicator control

LED-No.	Color	Description	Active Condition
1	yellow	Label on pad	ON
2	yellow	operation voltage 5 V	ON
3	green	PLC-Signal XSTRT	ON
4	green	PLC-Signal XSTP	ON
5	green	PLC-Signal XDREE	ON
6	green	PLC-Signal XRS	ON
7	green	no function	

Table 3 LED on the PCB applicator control

5.3 Pressure Measurement

5

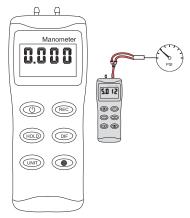
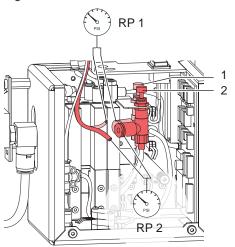
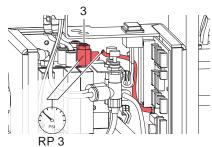


Figure 21 Pressure Measurement





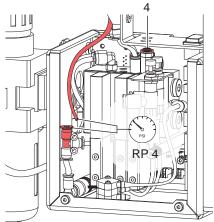


Figure 22 Reading points to measure the pressure

Use a manometer with a measurement area to 5 bar for measurement the pressure

Reading points (RP) of pressure values.

RP 1/2 : Working Pressure Lift Cylinder (reference value 2.5 bar)

- 1. Remove cover and close comressed air supply.
- 2. Consecutively connect the manometer on RP 1 (detect presure and adjust like item 3-5) then connect to RP 2. (like item 3-5).

RP 1: Lift cylinder movement out

RP 2: Lift cylinder movement in

- 3. Compressed air supply open and measure the pressure.
- 4. As and when required adjust it on miniature pressure regulator .
- 5. To detach the manometer close the air supply and deaerate the cylinder again.
- 6. Mount cover again.

RP 3: Support Air (reference value 2,0 bar)

- 1. Dismount cover.
- 2. Attach manometer between measurement points RP 3.
- 3. Open the air supply and activate the valve manually to measure the pressure.
- 4. As and when required adjust it on support air throttle valve.
- 5. Mount cover again.

RP 4 : Vacuum (reference value -0,6 bar)

- 1. Close suction plate hermetic.
- 2. Attach manometer between measurement points RP 4.
- 3. Open the air supply and activate the valve manually to measure the pressure.
- 4. As and when required adjust it on vacuum throttle valve.



Attention!

After pressure measurements, connect all component exactly and check it.

5.4 Error Indication

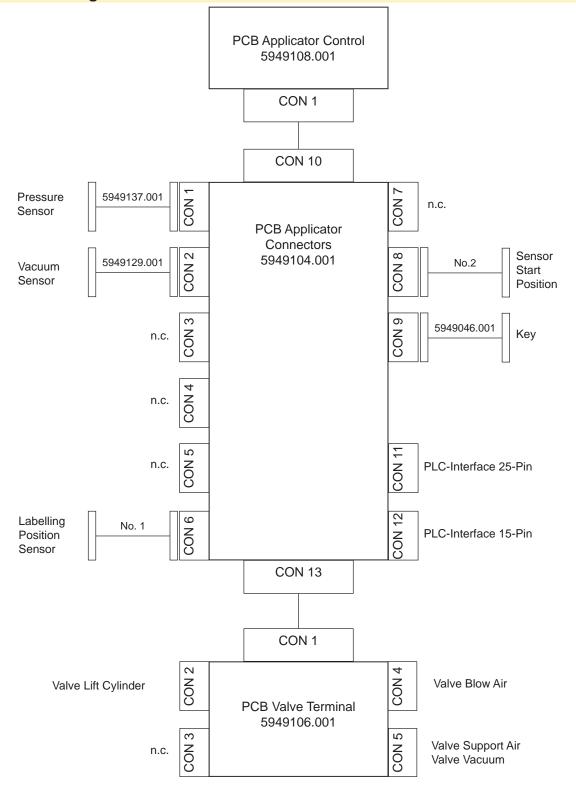
The following table comprised possible sources of faults and possible proposals for fault clearance. Outer causes like lack of pressure air and malfunction of printer will be verified further.

Symptom	Cause and solution
Insufficient vacuum on pad	 In cyclical operation, the vacuum valve won't controlled. PCB defect ▶ change PCB
	 There is no pressure at the outlet of the vacuum throttle valve or the pressure can't be controlled. Replace vacuum throttle valve.
	3. It doesn't establish a vacuum on exit of the vacuum generator▶ Replace the sound absorber if it soiled.
	Leakage in the chain of vacuum Measurement like described in ▷5.4
	Check the vacuum transmission elements and in case of failure replace it.
	5. It doesn't establish a vacuum on exit of the vacuum generator▶ Replace the vacuum generator in case of failure.
	 Not enough negative pressure at the suction plate. Suction channels at the suction plate, foil or absorbability plate clotted. ▶ Clean the suction channels and/or replace foil and absorbability plate respectively.
Fault in cylinder movement	The state of valve control will shown via LED's at the plug connectors. 1. Cylinder will be not controlled. LED's glow in case of switching but valve doesn't work ▶ Replace valve
	LED's doesn't glow Check connections, replace as necessary PCB
	 3. There is no pressure at the outlet of each on cylinder mounted throttle valve or the pressure can't be controlled. Replace the fault throttle valve.
	 4. There is no pressure at the outlet of the miniature pressure regulator or the pressure can't be controlled. ▶ Replace the miniature pressure regulator.
Loss of blow air	The valve doesn't activated, LED at valve doesn't glow. PCB damaged ▶ Replace PCB
	 On pad doesn't exist enough pressure in case of activated valve. Pneumatic tubes fault ▶ Replace pneumatic tubes

Symptom	Cause and solution
Loss of support air	 Valve will not controlled, LED doesn't glow. (▷ Operator's Manual) - PCB damaged Replace PCB
	 There is no pressure at the outlet of the support air throttle valve or the pressure can't be controlled. Replace support air throttle valve.
	 Not enough pressure air at blow tube in case of controlled valve. Pneumatic tubes fault ▶ Replace pneumatic tubes
Permanent error in transfer of labels to the pad (error message: pad empty)	 Incorrect pad position in the start position compared to the printer's dispense edge. Backmost edge of pad approx. 1 mm over the printer's dispense edge. (▷ Operator's manual) Temporary falling pressure in compressed air supply for the lift cylinder. (e.g. trough manipulate hand slide valves) Quit the error message
	 Vacuum to low and want of Vacuum at pad ▶ Adjust vacuum throttle valve.
	 4. Support air doesn't blow exactly the label to the pad. ▶ Adjust the blow tube for support air. ▶ Adjust pressure of support air via throttle valve 'support air'. ▶ Adjust switch on delay at via potentiometer R21 ▷Operator's manual
Loss of applicator function	Interface applicator-printer connector SUB-D15 doesn't connect accurate. ▶ Reestablish connection.
	 Breakdown pressure air. ► Check circuit points.
	3. Applicator PCB damaged.▶ Replace PCB.

Table 4 Troubleshooting and fault clearance (continuance)

22 6 Block Diagram 22



Туре	No. 1 Labelling Position Sensor	No. 2 Sensor Start Position
A 1000-150	5949203.001	5949198.001
A 1000-220	5949177.001	5949172.001
A 1000-300	5949230.001	5949123.001
A 1000-400	5949243.001	5949238.001

Figure 23 Block Diagram A 1000

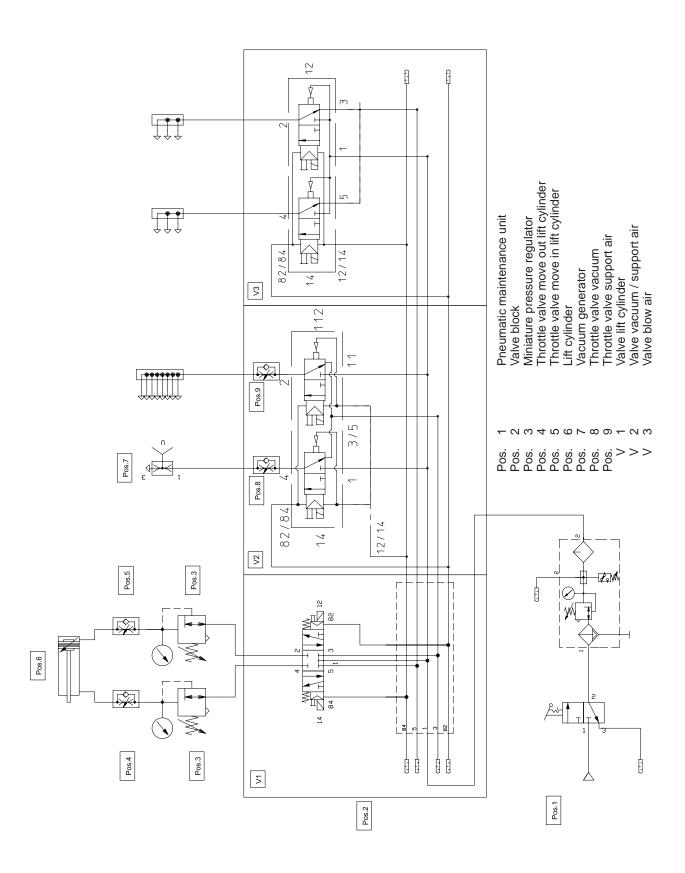


Figure 24 Pneumatic drawing applicator A 1000

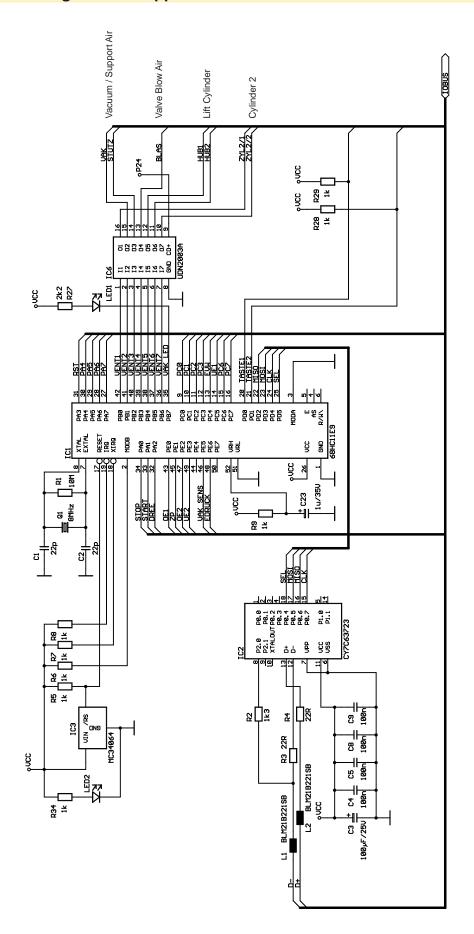


Figure 25 Circuit Diagram PCB Applicator Control A 1000 (5949108.001)

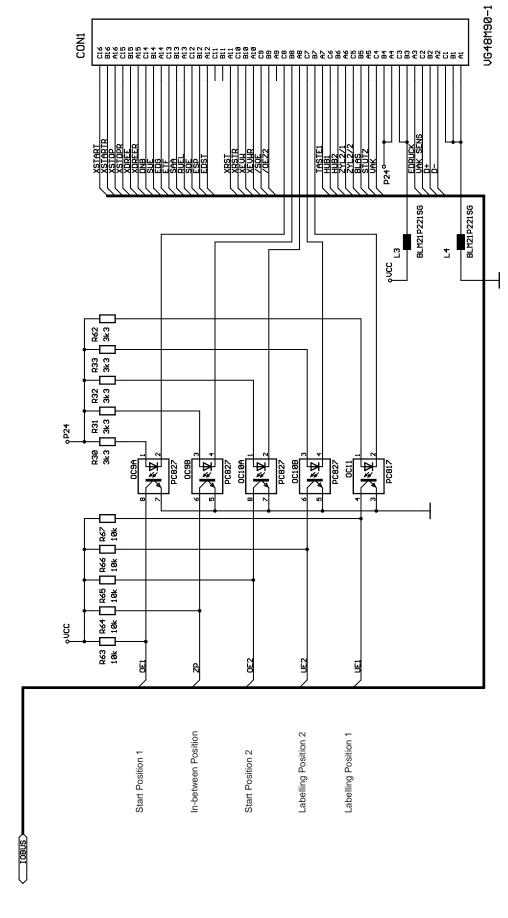


Figure 26 Circuit Diagram PCB Applicator Control A 1000 (5949108.001)

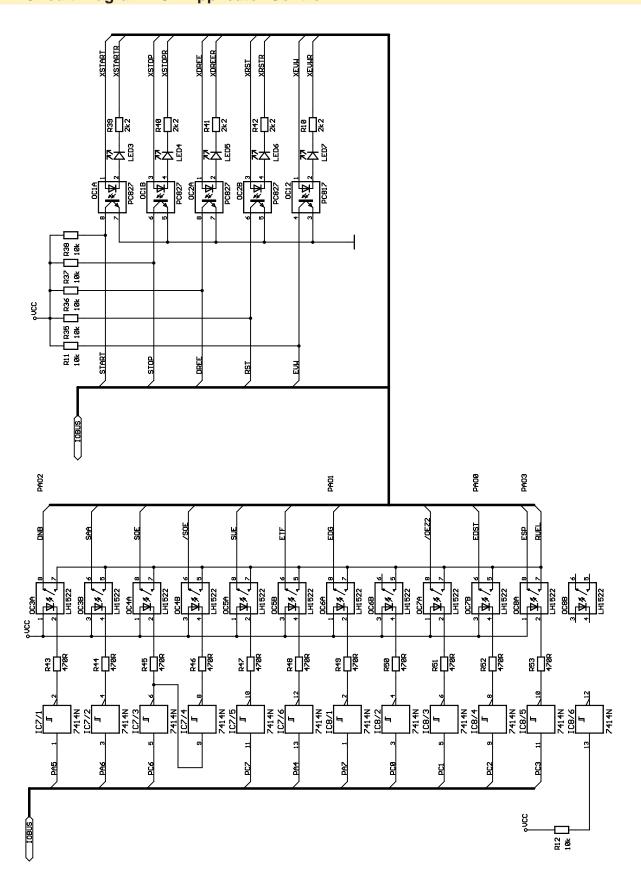
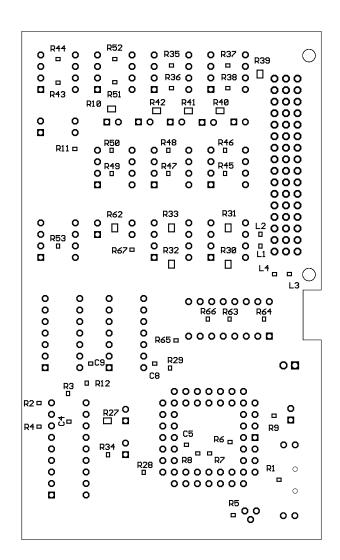


Figure 27 Circuit Diagram PCB Applicator Control A 1000 (5949108.001)



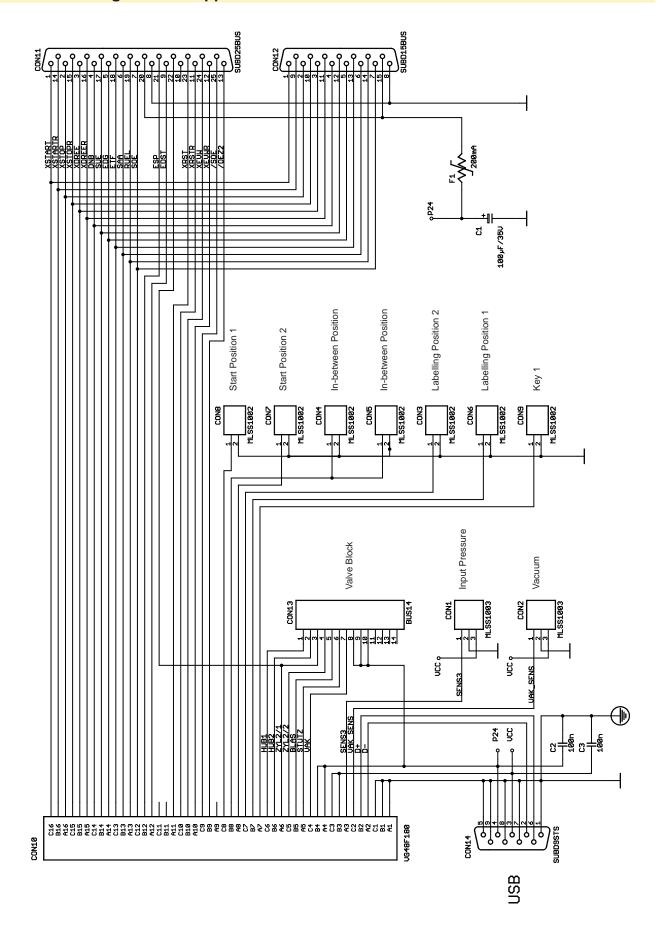


Figure 29 Circuit Diagram PCB Applicator Interfaces A 1000 (5949104.001)

11 Terminal Diagram PCB Applicator Interfaces

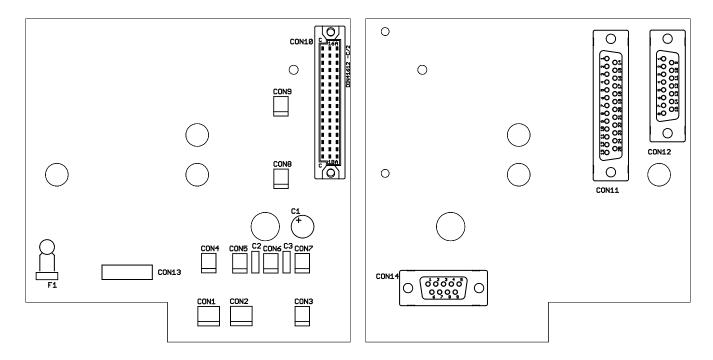


Figure 30 Terminal Diagram PCB Applicator Interfaces A 1000 (5949104.001)

12 Cicuit Diagram Valve Block

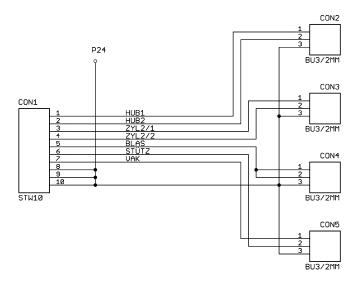


Figure 31 Circuit Diagram PCB Valve Block A 1000 (5949106.001)

13 Index 30

Α
Applicator function21
В
Block Diagram
Valve 9 Blow air 20 Blow Tube 8
С
Controller 15 Cover 13 Cylinder 8 Replace 16 Cylinder movement 20
E
Energy track
Instructions4
L
Labeling position Sensor8
LED
0
Overview6
P
Pad
Replace15
PCB Applicator Interfaces
Pneumatic drawing
Pressure Value
Pneumatic Maintenance Unit
Pneumatic Maintenance Unit

Т	
Tools Transfer of labels	
V	
Vacuum Valve	9
Vacuum Generator	
vacuum on pad	20
Valve	14
Valve Block	
Valves	9