

COROB™ D300

Automatic dispensing machine
Service and Maintenance



CPS Color Equipment Oy

COROB™ D300

Service and Maintenance manual

Version 1/05

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CPS Color Equipment Oy

Päivöläntie 5 • FIN-28400 Ulvila • FINLAND

Tel: +358 2 6777 700 • Fax: +358 2 6777 701 • E-mail: service_fi@cpscolor.com

www.cpscolor.com

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1 GENERAL

1.1 COROB™ D300 parts

COROB™ D300 is an automatic dispensing machine available with sixteen colourant canisters. The canister size is four or six litres. COROB™ D300 is meant for dispensing water-based colourants and its main operational utilisation is for all kinds of shops and other institutions.

NOTE!: Optional equipment is indicated by a dashed line.

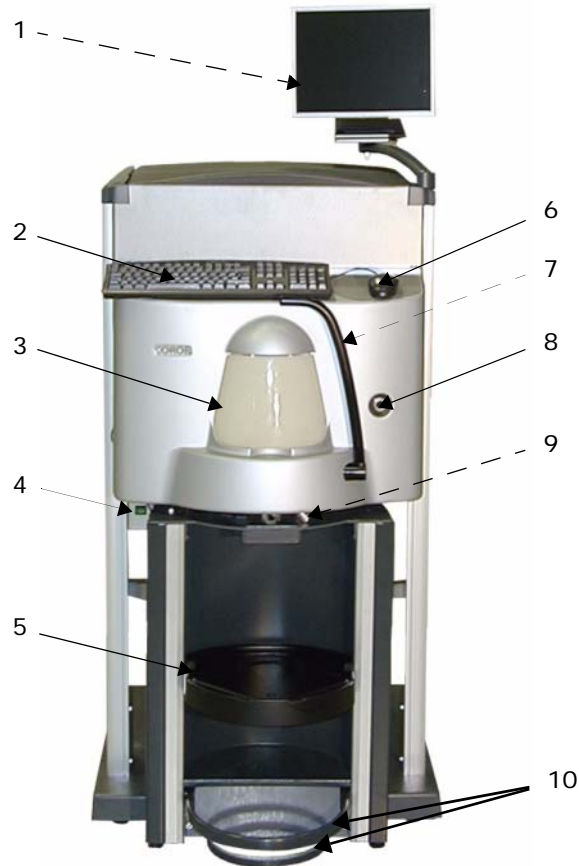


Figure 1: COROB™ D300's parts

Table 1. Parts of the dispensing machine

1. Monitor	2. Keyboard
3. Water reservoir	4. Main switch
5. Hydraulic can table	6. Mouse
7. Punching device arm	8. ON/OFF switch
9. Punching blade	10. Pedals of the can table

Main mechanical parts

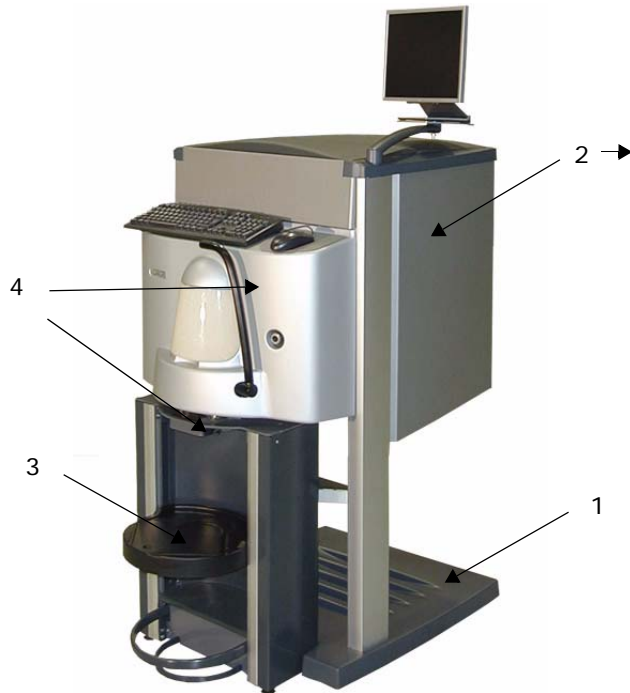


Figure 2: Main assemblies:

- 1. Foot
- 2. Upper frame
- 3. Can table
- 4. Puncher

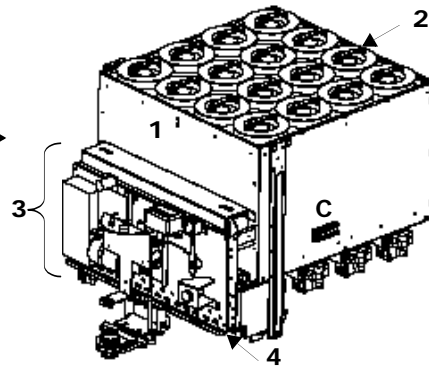


Figure 3: Parts of the upper frame:

- 1. Rack for canisters
- 2. Colorant canisters
- 3. Dispensing module
- 4. Valves
- C Interface board C

Order of the pumps and hoses

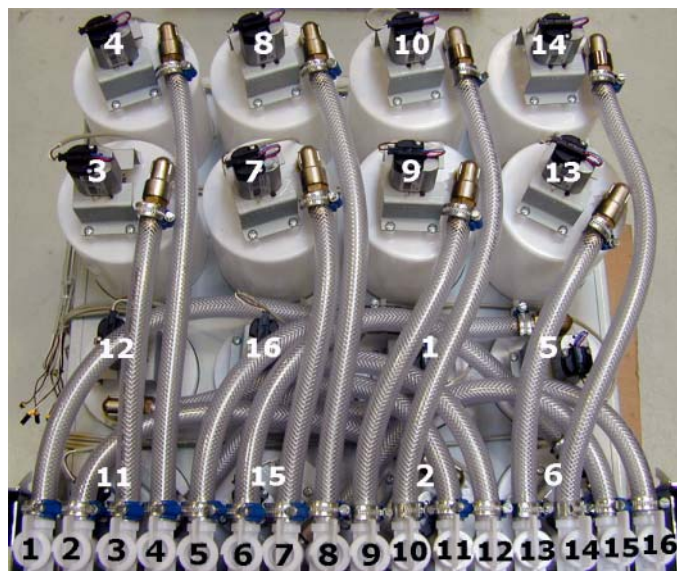


Figure 4: Fixing order of the hoses and numbering of pumps and canisters is marked in above picture. Remember that the picture is taken from underside.

The numbering of the canisters and pumps is also marked in figure 50 on page 25.

The dispensing module

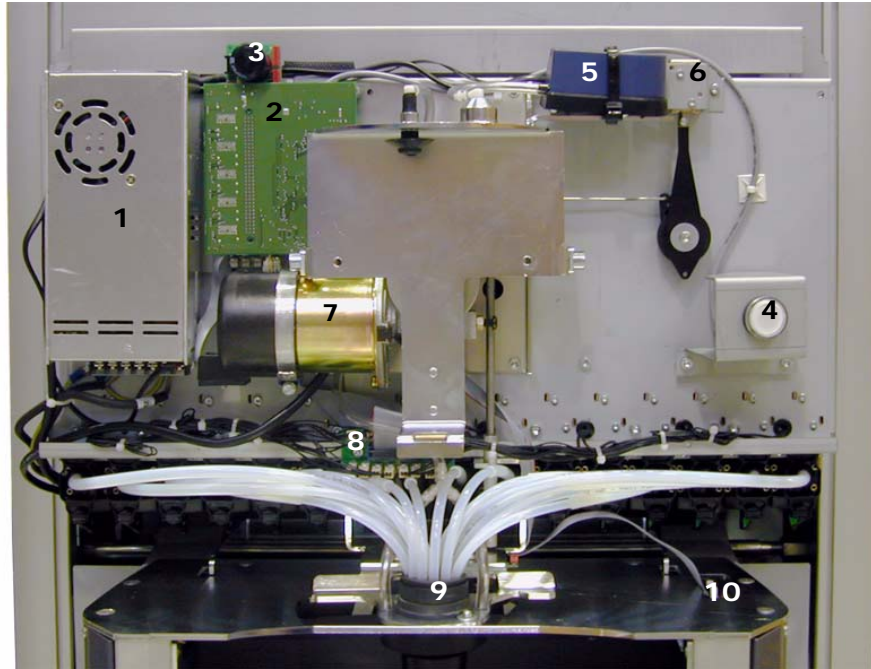


Figure 5: COROB™ D300's dispensing module is behind the front cover.

Table 2. Parts of the dispensing module

1. Power supply	2. Processor board
3. Connector board	4. ON/OFF switch
5. Air pump	6. Solenoid of the humidifier cap
7. Dispensing motor	8. Interface board A
9. Nozzle	10. Cable interface

1.2 The control system of COROB™ D300

The COROB™ D300 is controlled by processor board, which controls COROB™ D300's motors through the connector board.

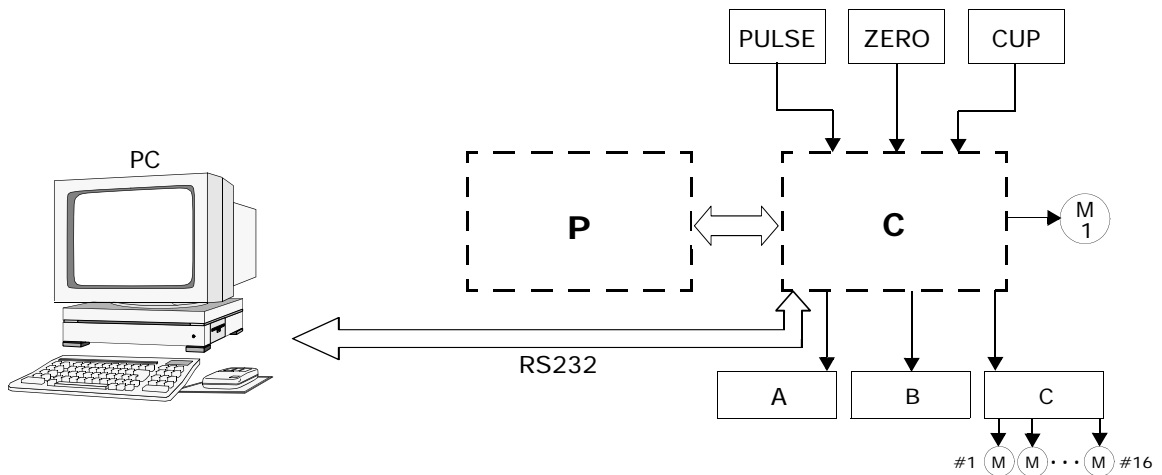


Figure 6: The control system of COROB™ D300

Explanations

P = processor board

C = connector board

RS232 = Standard defining communication between a computer and the COROB™ D300

PULSE = Pulse sensor

ZERO = Zero sensor

CUP = Humidifier cap sensor

M1 = Dispensing motor

A = Interface board for valves

B = Interface board for pumps

C = Interface board for stirring motors

M = Stirring motors, 16 pieces

The sensors are connected to the connector board that transmits information to the processor board and to the PC.

All boards that are in the COROB™ D300 are shown in figure 7. The order code for each board is after the name of the board in table 3.

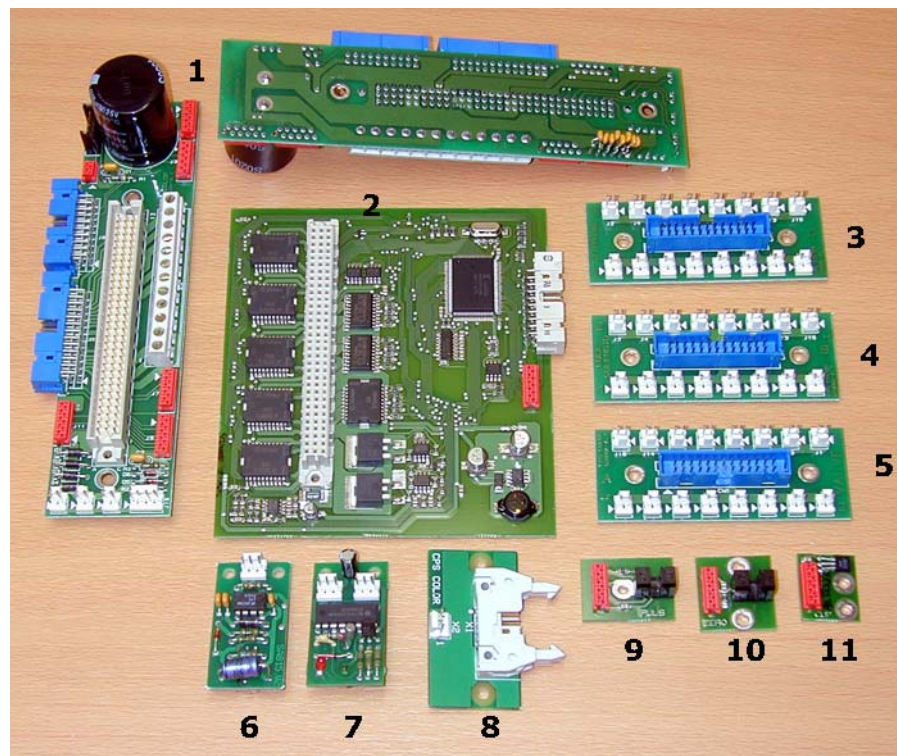


Figure 7: Boards of COROB™ D300

Table 3. Boards in figure 7

- | | |
|--|------------------------------------|
| 1. Connector board (V44752) | 2. Processor board (V43786) |
| 3. Interface board C: Stirring (V44846) | |
| 4. Interface board B: Solenoids for selecting the pumps (V44844) | |
| 5. Interface board A: Solenoids for opening the valves (V44845) | |
| 6. IR receiver board (V06271) | 7. IR transmitter board (V06270) |
| 8. Cable interface (V44971) | 9. Pulse sensor (V43769) |
| 10. Zero sensor (V43773) | 11. Humidifier cap sensor (V43676) |

The COROB™ D300 has three interface boards: A, B and C. The boards A and B are for controlling solenoids. The solenoid board A that controls the valves is in front of the dispensing module, in the lower part of it, see number 8 in figure 5. The other solenoid board, board B, is in the solenoid rail assy behind the dispensing module, see figure 9. The pump or the pumps that are going to dispense are selected with this board.

Movement of the impellers of the colorant canisters are controlled with the interface board C. There is a stirring motor under each colorant canister. This motor rotates the impeller inside the canister. The interface board C is on the right side of the canister rack, it's marked with letter C in figure 3 on page 3.

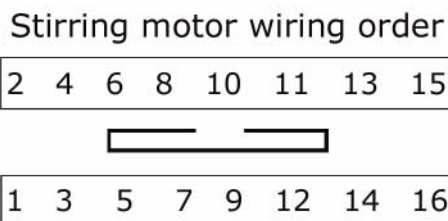


Figure 8: The wiring order to stirring motors on the interface board C.

The locations of the sensor boards are marked in figure 71 on page 32. The cable interface is on top of the can table, see number 10 in figure 5 on page 4.

Solenoids

The COROB™ D300 has 33 solenoids, two different sizes:

- sixteen smaller ones for selecting the piston of the pump. These solenoids are behind the dispensing module. The wiring order to solenoids from the board is described in figure 10.



Figure 9: Interface board B is fastened to the solenoid rail assy behind the dispensing module.

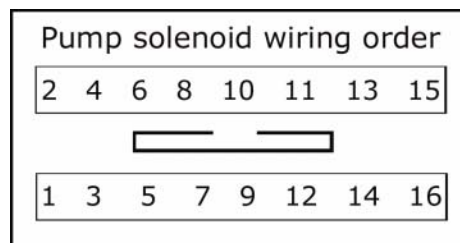


Figure 10: The wiring order on the interface board B.

- sixteen bigger solenoids are for opening the valves. The solenoids are in front of the dispensing module. The wiring order from the board to the solenoids is described in figure 11.

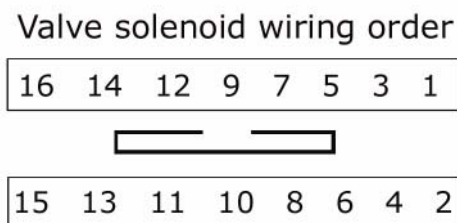


Figure 11: The wiring order on board A, which controls the movement of the valves.

- one solenoid controls opening and closing of the humidifier cap. This solenoid is beside the air pump in the dispensing module, number six in figure 5.

Sensors

The sensors in the COROB™ D300 are used for

- monitoring if the humidifier cap is under the nozzles or not, (CUP)
- counting the pulses of the dispensing motor (PULSE),
- monitoring when the crank passes 0 point (ZERO) and
- monitoring if a paint can is on the table or not.

The sensor of the humidifier cap is attached to the nozzle assembly. The pulse and the zero sensors are connected to the dispensing module assembly. The can sensor is on top of the can table.

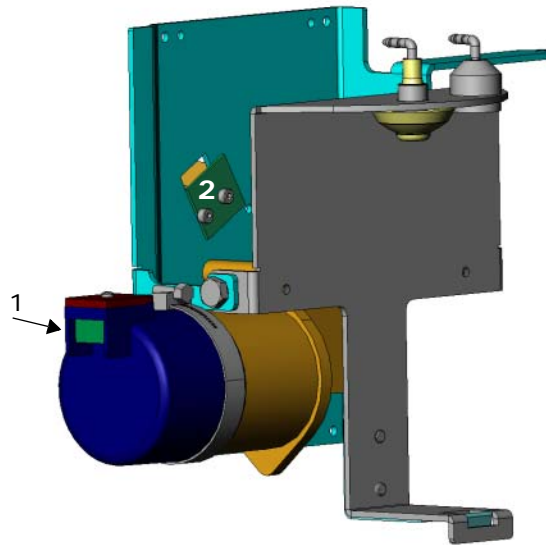


Figure 12: The dispensing module assembly (V44517), which includes also the pulse (1) and the zero sensor (2).

You can also see the location of the sensors in figure 71 on page 32 and in figure 72 on page 33.

1.3 Technical information

Measurements	Package(with content)	
Length	1040mm	1310mm
Width	745mm	950mm
Height	1465 mm	1550mm
Volume	1.1m ³	1.9m ³
Weight	174kg*	255kg
* includes PC		
Electric		
Voltage	100 - 240V	
Power	50 / 60Hz	
Fuses	2 * 10A	
Technical properties		
Number of canisters	max 16	
Volume of canister	4 or 6l	
Pump type	Piston pump	
Dispensing	Volumetric, max. 3 colorants simultaneously	
Dispensing capacity, average	0.35 l /min.	
Diameter of puncher (option)	50mm	
Hydraulic can table: measurements of the can		
max size	30l	
max diameter	340mm	
min. height	70mm	
max height	450mm	

Dispensing system and technology

- Volumetric, simultaneous dispensing but only three colourants at a time.
NOTE! If the dispensing volume of one colourant is less than 0.3ml, only one colourant is dispensed at a time.
- Piston pumps: only the piston of the pump in use is moving

Dispensing parameters

- Fluid Ounce: US (29.57ml) or metric (31.24ml)
- Smallest unit size: 1/384Fl.oz
- Accuracy: ± 1%, with shots greater than 1ml

Specifications

- Water and glycol based and non-VOC colourants

Motors

- Dispensing motor
location: in front of the machine, see figure 5 on page 4.
- Stirring motors
location: under each canister, see figure 13.

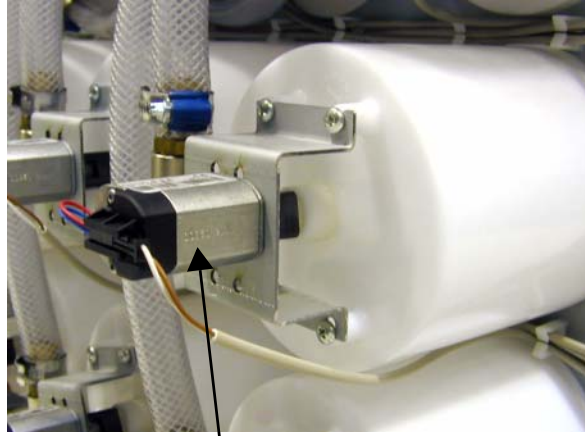


Figure 13: The impeller in every canister has an own stirring motor.

Disconnection of the motors is explained in the section "Replacing a motor" on page 34.

2 MACHINE INSTALLATION



WARNING! Only a service representative authorised by the supplier may install the machine.

The COROB™ D300 is delivered packed in a wooden crate that, in addition to the dispensing machine, contains an equipment package and all the ordered optional parts.

2.1 Installation site requirements

To ensure ease of use, take into account the following details when installing the machine:

1. The machine should be operated at room temperature, in a room with no harmful humidity or drafts and adequate air conditioning.
2. The machine must be placed away from direct sunlight.
3. The operating site must have adequate lighting.
4. Place the mains plug in such a place that it can be unplugged without moving the machine.
5. Check that the floor is not slippery or uneven.
6. Electrical interface:
 - 100 - 240 V,
 - 50/60 Hz / F 10 A
 - Earthed wall socket
7. Machine dimensions, see "Technical information" on page 8.

2.2 Installation



CAUTION / IMPORTANT If the dispensing machine is brought in from a cold temperature, wait one day before using the machine. The temperature difference may condense moisture on the machine's components, which could damage the machine's electronics when the power is switched on.

NOTE!: An instruction for removing the COROB™ D300 from the package is attached to the machine!

Installation step by step:

1. Carefully remove the COROB™ D300 from the transport package:
 - Remove the packing material around the machine
 - Remove the equipment package and other possible accompanying equipment like computer and monitor from the top of the foot.
 - Remove the steel straps and planks that are used to attach the COROB™ D300 on the pallet.
 - Place the side of the transport package as a ramp: the other edge of the cover below the foot of the COROB™ D300 and the other edge on the floor.
 - Slide the COROB™ D300 along the ramp to the floor.
-

NOTE!: At least two persons must work together to remove the machine from the package.

NOTE!: The COROB™ D300 moves best backwards.

2. Check that the dispensing machine and accompanying equipment have not been damaged during transport.
3. Check that all the ordered items have been delivered. It's also good to check that the accompanying accessory kit contains everything it should.

NOTE!: If the machine is damaged or the content does not correspond to the order, contact the service centre or seller.

4. Place the COROB™ D300 to its operating site considering the requirements mentioned on previous page.
5. Adjust the two adjustable feet below the front part of the foot to ensure that the machine stands steadily.
6. Place the PC (optional) behind the can table on foot of the COROB™ D300 and the monitor on the monitor rack, see figure 1 on page 2. Connect the necessary cables to the mains connecting plate that is under the machine, see figure 14.

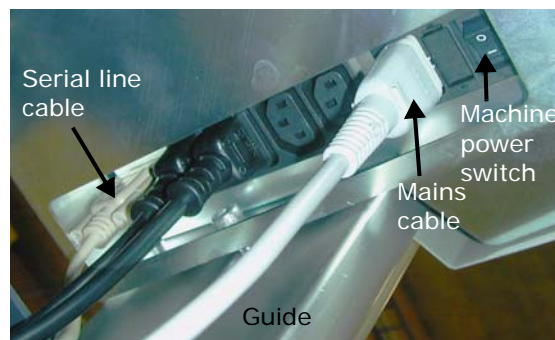


Figure 14: The sockets for COROB™ D300's cables are in a connector plate under the machine beside the left guide.

The COROB™ D300 has two different power switches:

The **machine power switch** is beside the sockets in the mains connecting plate. This switch cuts off all power from the machine and other equipment.

The **main switch** is on the left side of the can table unit, see number 4 in figure 1 on page 2. The main switch cuts off the power from the COROB™ D300, but leaves the power on to the mains connecting plate. This means that equipment that got their power through the COROB™ D300's connecting plate, like the air pump, monitor or computer, are not switched off.

7. Install the cables of monitor, keyboard and mouse, if necessary. The instruction is in the manual folder which is delivered in the accessory kit.
8. Fill the water reservoir in front of the machine with cold water.
*NOTE! Use **only water** in the reservoir!*
9. Also attach the mains cable to the connector plate, see figure 14.
10. Switch on the CPU and monitor.
11. Fill the colorant canisters, if the machine is not delivered with the colorants inside.

NOTE!: Add colorant so that the canister is at least half full.

12. Lift up the draft bar that is in front of the pump few times to fill up the hose from nozzle to the pump.

NOTE!: It is recommended that you calibrate the COROB™ D300 on the following day after filling up the canisters.

13. Switch on the dispensing machine the COROB™ D300.

12 2 - Machine installation

14. Adjust the colorant level alarm for the correct amount, 0.5 - 1l, by activating the colorant control of the machine driver software.
=> The machine reduces the colorant amounts used in dispensing and informs if there is not enough some colorant.
This way you can add colorant during dispensing and the dispensing continues normally after that.
15. Check that the **pistons** of the pumps **are not in their lowest position**.



Figure 15: The piston of the pump must be lifted up a little, when the pumps are in the machine.

16. Run *Purge (Sequential)* -test and check that the valves, solenoids and pumps are working, see the section "Purge, init and dispense commands" on page 47.
17. Remove the air from the hoses, pumps and nozzles by dispensing 500ml of colorant from each canister. Do it either with Free dispense or Manual dispense programs:
 - Start the program
 - Change the unit to *ml*, if necessary.
 - Dispense 500ml of each colorant to a clean container.
 - Pour the dispensed amount back to the canister.
 - Close the program by pressing the cross at the top right corner of the window.
18. Check that the puncher (optional) works properly.
19. Check that the humidifier cap works correctly.
20. Check that the space between the humidifier cap and the nozzles is 0.5 - 1mm.

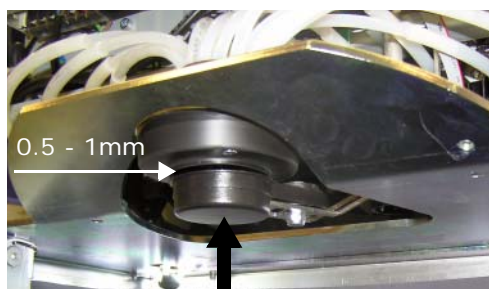


Figure 16: The humidifier cap is under the nozzles.

21. Fill in the Installation report and Warranty registration form and send it to CPS Color Equipment Oy.

NOTE!: The warranty becomes valid after installation. However, this will never exceed 14 months from the delivery.

2.3 Mounting monitor cables

Procedure

1. Lift up the monitor arm and corner frame, figure 17.
2. Pass two protective hoses, length 450 mm, around the monitor cables as shown in figure 18.



Figure 17: The monitor arm and corner frame are lifted up.

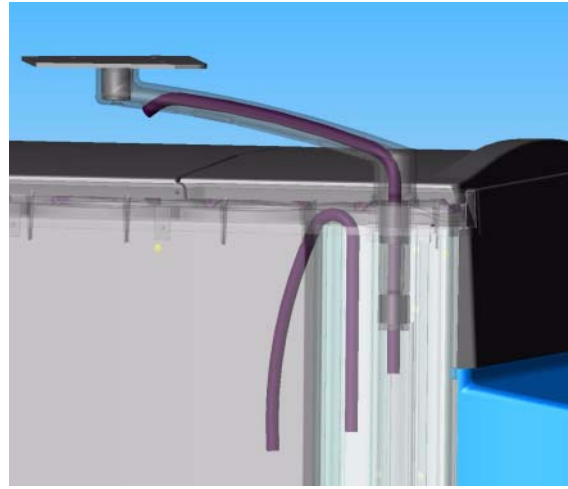


Figure 18: Two protective hoses, violet ones, should be placed like this.

3. Pass the cables inside the monitor arm.
4. Push the arm inside the beam.
5. Pass the cables over the beam behind the side plate.
6. Put the corner frame back in place.



Figure 19: Both the arm and corner frame are in place.



Figure 20: The cables run inside the left side plate.

2.4 Mounting the keyboard and the mouse cable



Figure 21: Stick 4 pairs of stickers in the bottom of the keyboard.

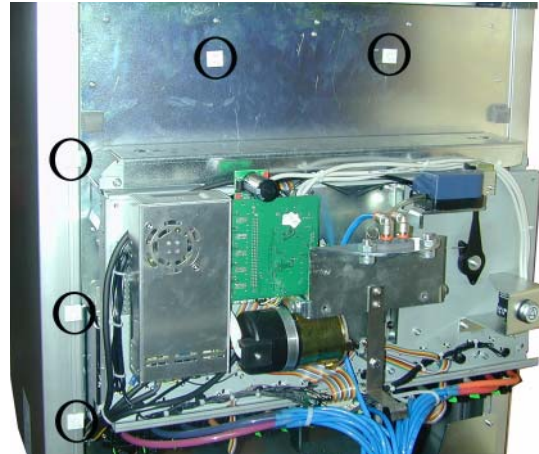


Figure 22: Remove the front casing and panel. Attach 5 adhesive cable tie mounts (circled in the picture) to the machine.



Figure 23: Fasten both the mouse cable and the keyboard cable to the mounts with cable ties.



Figure 24: Put the front casing and panel back in place. Fasten the keyboard with stickers on top of the casing.

3 MAINTENANCE INSTRUCTIONS



WARNING! Before service, repairs and cleaning, unplug the mains from the outlet.

3.1 Removing the front casing

The COROB™ D300's dispensing module is protected with a front casing. You can remove this casing only for service.

Tools required:

- 4mm Allen key

Procedure:

1. Turn the monitor stand (optional) aside away from the top of the machine.
2. Open the cover which is over the colorant canisters: press down the front edge of the cover and push backwards.
3. Remove the keyboard and mouse from the top of the front casing.
4. Loosen the locking nut that fastens the puncher handle (optional) to the crank and remove the handle, see figure 25.
5. Remove the water reservoir.
6. Open the two screws which are behind the reservoir.
7. Remove the front casing by pulling it away from the machine.



Figure 25: The puncher handle is attached to the crank with one locking nut.

3.2 Removing the can table during service

If you have to tilt the dispensing module forward for maintenance or you have to access parts under the machine such as the pumps, stirring motors, canisters or hoses, the can table in front of the machine has to be removed.

Tools required:

- 8mm Allen key
- 8 and 10mm set wrench

Procedure:

1. Unplug the mains from the outlet.
2. Remove the front casing according to instructions given above.
3. Remove the humidifier cap, so it will not get broke while moving the can table.
4. If the COROB™ D300 has punching, remove the striking rod behind the puncher as follows:
 - Put the puncher handle back in place and press the handle down.
 - Open the locking nut of striking rod, see figure 26.
 - Screw the rod from out of place.

WARNING! Punching blade may cause personal injury.

5. Detach the cable from the cable interface, see figure 27.

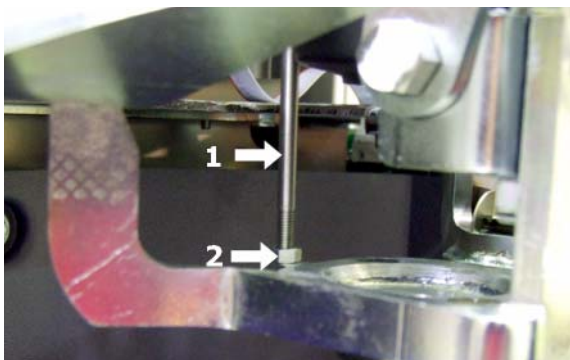


Figure 26: The striking rod (1) is locked with a nut (2) and they are behind the puncher blade.

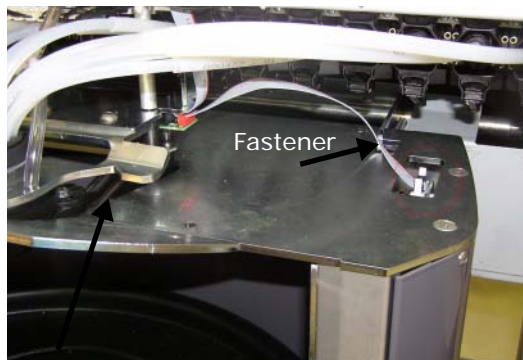


Figure 27: Detach the cable from the cable interface.

6. Open the two screws which are in lower-front-part of the can table. These screws fasten the can table to the foot, see figure 28.
7. Lift up the fasteners which are on top of the can table and detach the upper part of the can table. You can see the fastener on the left in figure 29 and the right one in figure 27.
8. Place the puncher handle (optional) back in place and lower the puncher blade. Now it is easier to remove the table.
9. Pull the can table away from the COROB™ D300.
10. Attach the can table back in place in opposite order.

NOTE!: Make sure that the removed can table stands.



Figure 28: The can table is attached with two screws to the foot of the COROB™ D300.

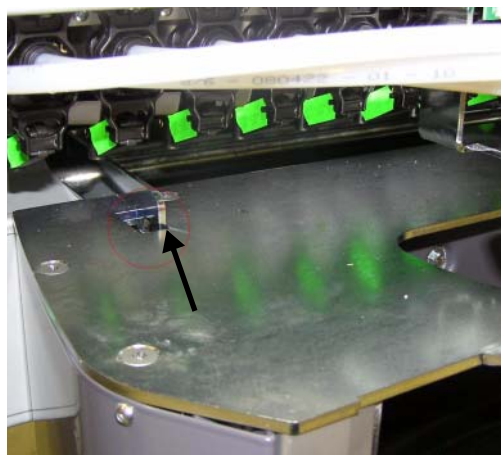


Figure 29: The fastener on the left.

3.3 Tilting the dispensing module

Tools required:

- 2.5 mm Allen key

Procedure:

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.
2. Remove front casing, see instructions on page 15.
3. Remove the hydraulic can table, see "3.2 Removing the can table during service".
4. Remove the top screw on both sides of the dispensing module, see figure 30.

- Lift both catches (figure 30) on the sides of the dispensing module away from the groove in the front plate of the rack for canisters.

=> the top of the dispensing module tilts forward, like in figure 31.



Figure 30: The catch that locks the dispensing module is fastened with one screw.

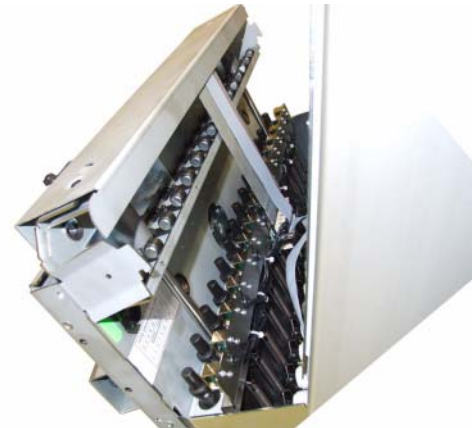


Figure 31: The dispensing module is tilting forward.

3.4 Changing the solenoid rail assembly

Tools required:

- 3 mm Allen key

Procedure

- Switch off the COROB™ D300 and unplug the mains cable from the outlet.
- Remove front casing, see instructions on page 15.
- Remove the hydraulic can table, see "3.2 Removing the can table during service".
- Tilt the dispensing module forward according to "3.3 Tilting the dispensing module".
- Disconnect the flat cable from the interface board B, see figure 9 on page 6.
- Open the Allen screws on both ends of the solenoid rail, see figure 32.
- Remove the solenoid rail and install a new one.
- Check that the horizontal part of the solenoid rail is on same level with the top of the hinge on the side of the dispensing module, see figure 33.
If the rail is too low the plastic hooks do not reach the piston rods when the solenoid is activated.
- Adjust the rail by bending it, if necessary, so that all the solenoids are aligned.

NOTE!: The solenoids must be in straight line in order to hit the plastic hooks!

- Fasten the rail with screw in place.
- Assemble the COROB™ D300 in opposite order.

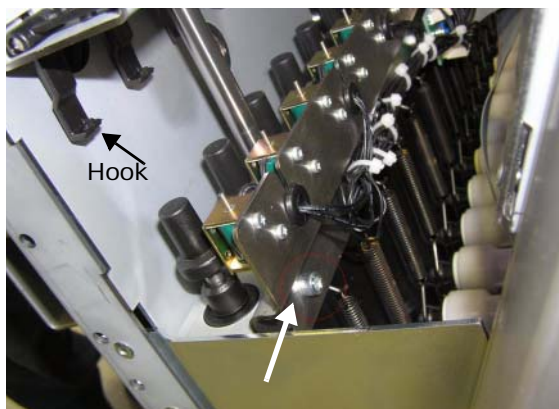


Figure 32: The solenoid rail is fastened on both ends with a screw to the dispensing module.

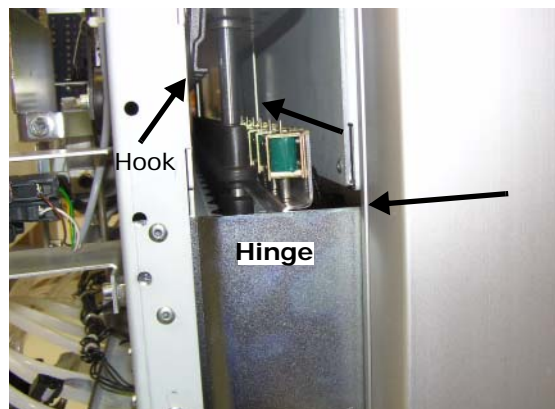


Figure 33: The solenoids have to be in straight line in the solenoid rail.

3.5 Adjusting the valve solenoid

The fixing screws of valve solenoid are fastened somewhere in the middle of the fixing slots. The lowest position is not probably the correct one for the solenoid because there is a risk that in some cases the valve might leak back to the canister during dispensing.

Tools required:

- Cross head screwdriver

Procedure:

1. Loose the solenoid fixing screws (marked with arrow to figure 35) so that the solenoid drops to the lowest position.
2. Place a small tool under the plunger and push the plunger upwards until the draft bar touches the outlet of the pump, see figure 35. Also the solenoid coil moves upwards.
3. Tighten the solenoid to this location with screws.

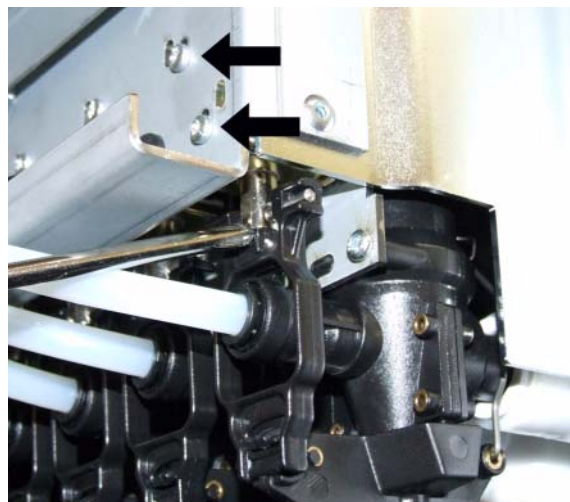


Figure 34: Place a tool under the plunger.



Figure 35: Push the plunger upwards until the draft bar touches the outlet of the pump (white arrow).

3.6 Changing the puncher blade (optional)

The colorant spray coming from the nozzles must hit the middle of the hole in the can's cover.



WARNING! *The punching blade may cause personal injury.
Be careful when working with the blade.*

Tools required:

- 6mm Allen key

Procedure:

NOTE!: *Use safety gloves!*

1. Clean the blade.
2. Open little the Allen screw in the middle of the puncher blade (figure 36)
=> the blade falls down!.
BE CAREFUL!
3. Set the new blade in position so that the tips are in the centre line, see figure 37.
4. Tighten the screw very tight.

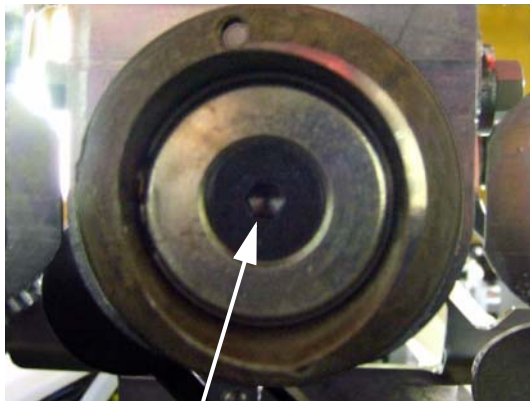


Figure 36: The blade is attached with a Allen screw in the middle.

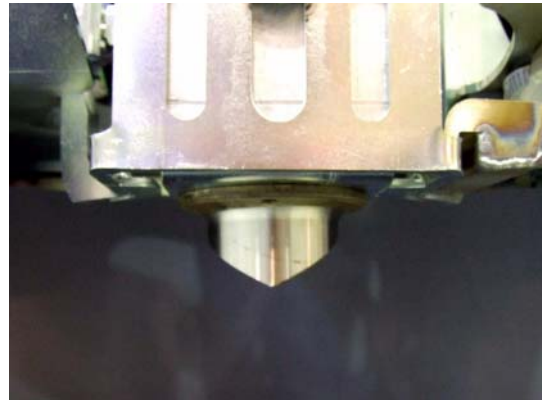


Figure 37: The blade in lower position.

NOTE!: *It is easier to clean the blade if you submerge it into water/solvent overnight.*

3.7 Maintenance of the hydraulic lift unit

The hydraulic lift unit is composed of a pump, hydraulic cylinder and a hose between these two. If the pump or cylinder requires maintenance, they must both be removed at the same time.

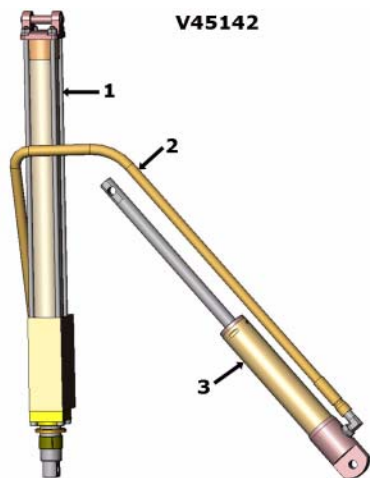


Figure 38: The parts of the hydraulic lift unit (V45142) are: 1 pump, 2 hose and 3 cylinder.



Figure 39: The hydraulic lift unit in position in the can table.

3.7.1 Changing the hydraulic lift unit

In normal use, small amounts of oil may exit through the rod of the cylinder or pump. If a lot of oil exits, it indicates that the seals are broken and the entire unit must be changed.

NOTE!: The filter in the breather hole of the pump is replaced with a plug during transportation. Replace this plug with a filter before implementation.

The following instruction tells you how you can replace a leaking lift unit with a new one.

Tools required:

- 8 and 17 mm set wrench
- 4 mm Allen key

3.7.1.1 REMOVING THE HYDRAULIC LIFT UNIT

Procedure:

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.
2. Remove the hydraulic can table, see "3.2 Removing the can table during service".
3. Remove the cover behind the table (six screws: four in upper part and one on both sides below).
4. Remove the cover from top of the can table.
5. Remove the back cover behind the can table as follows:
 - Remove the plastic cover from top of the table. It is attached with four reclosable fasteners.
 - Open the screw in top of the back cover.
 - Bend the upper part forward and lift the lower part behind the can table, see figure 40.



Figure 40: Removing the back cover.

6. Remove the retaining ring from the shaft in the upper part of the pump, figure 41.
7. Remove the filter from top of the pump and replace it with a plug to prevent the oil leaking out.

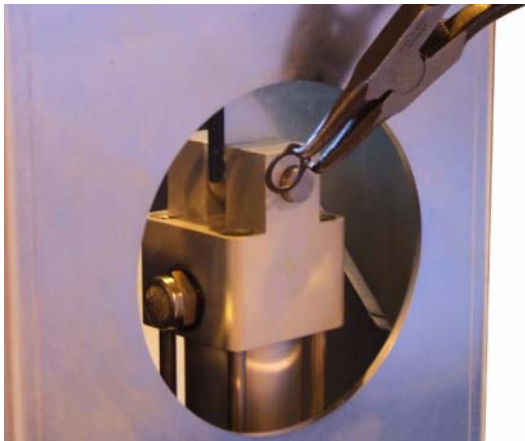


Figure 41: Remove the retaining ring from the pump's shaft.

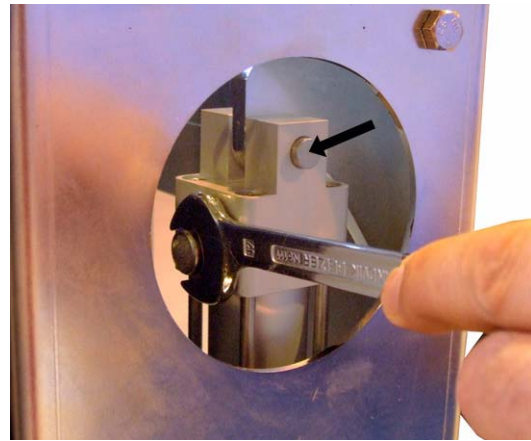


Figure 42: Replace the filter with a plug to prevent oil leakages.

8. Pull the shaft, shown with an arrow in figure 42, towards the can table and remove the top of the pump from the can table.
9. Remove the retaining ring from the bottom of the pump, see figure 43.

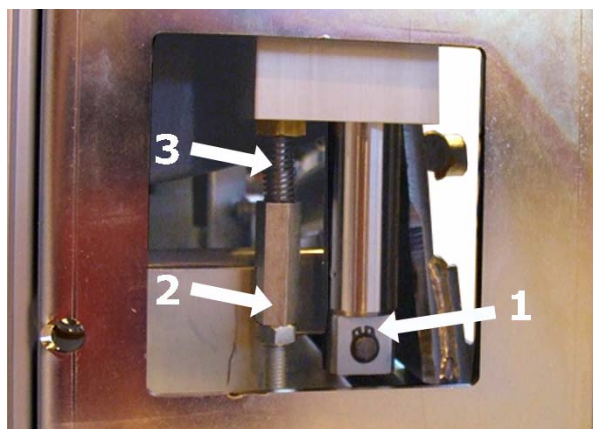


Figure 43: Parts in the bottom of the pump: retaining ring (1), connecting rod (2) and compression spring (3).

22 3 - Maintenance instructions

10. Open two eight-mm Allen screws from behind the can table and remove the hydraulic cylinder.
NOTE! The right screw is tightened with a locking nut.
11. Lift the cylinder beside the pump.
12. Move the hose from back to front of the pump.
13. Lift the whole unit from the can table
=> the connecting rod and compression spring are disconnected.

NOTE!: Keep the hydraulic lift unit always so that the breather hole is upwards.

3.7.1.2 INSTALLING A HYDRAULIC LIFT UNIT

Procedure

1. Place the hose in front of the pump and place the pump in position, figure 44.
2. Move the hose behind the pump, figure 45.



Figure 44: Install first the hydraulic unit's pump in position.



Figure 45: Move the hose between the pump and the can table.

3. Place the connecting rod in position.
NOTE! There is a washer under the rod, see figure 46.



Figure 46: There is a washer on the lever at the bottom end of the connecting rod.

4. Lift up the pump a little and place the compression spring in position.
NOTE! Check that there is about 1 cm gap in the movement of the lower pedal <=> a few millimetres gap in connecting rod.
5. Place the shaft in position in top of the pump.
6. Place the retaining rings in position.

7. Place the cylinder in position:
 - Put a washer behind the left screw and the cylinder, see figure 47.
 - Tighten the screw and open it one quarter of round.
 - Screw the right screw in position, tighten and lock with a locking nut
=> open the screw one quarter of round.

NOTE!: Never tighten the cylinder screws fully!

8. Replace the plug with a filter in top of the pump, if needed.
9. Test that the can table works properly.
10. Place the back cover back in position:
 - Lift the can table in upper position.
 - Thread the back cover in position from the front and the lower right corner first.
 - Check that the upper and lower parts of the sides are in grooves, see figure 48.
 - Fasten the back cover with the screw.



Figure 47: Fastening the cylinder rod to the can table assy.

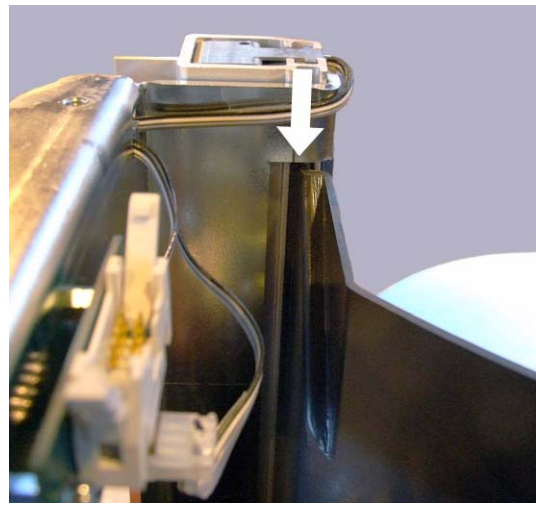


Figure 48: The back cover is placed in the groove of the frame.

NOTE!: Watch out for the wires of the can on can table -sensor, which run on top of the can table, see figure 48.

11. Place the plastic cover on the table as far back as you can.
12. Attach the cover on top of the can table assy.
NOTE! Watch out the sensor wires are not squeezed!
13. Vent the unit following the instructions explained below.

3.7.2 Venting

If the hydraulic can table doesn't maintain it's position, there is probably air in the hose and/or in the cylinder. The air can be removed according to the following instructions.

Procedure:

1. Remove the can table from the COROB™ D300.
2. Lift the can table to the upper position.
3. Tilt the can table assy on the pumps side as shown in figure 49.
4. Press the table down.
5. Lift and lower the table three times.

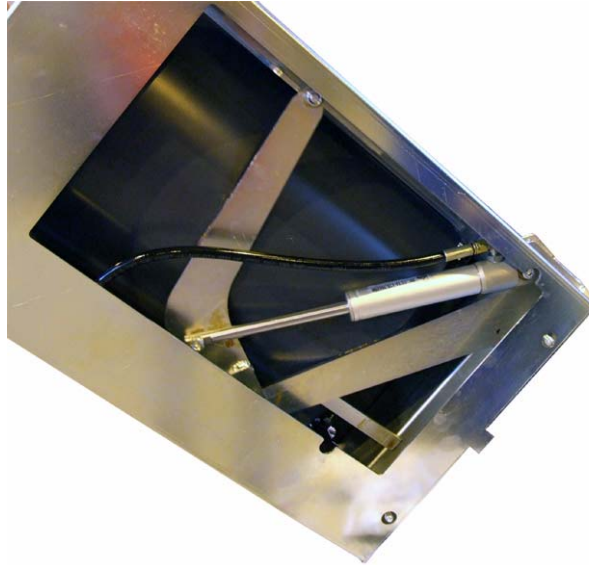


Figure 49: Tilt the can table assy like this so you can vent the hydraulic lift unit.

3.7.3 Adding oil

If COROB™ D300 has for example fallen during transport, the oil in the cylinder and pump may have leaked out. In this case you must add oil to the unit.

Installation oil: Mobil Oil Light ISO VG 32

Tools required:

- 5 mm Allen key

Procedure

1. Remove the can table from the COROB™ D300.
2. Remove the side plate.
3. Lower the table down.
4. Remove the filter from top of the pump, see figure 42 on page 21.
5. Pour oil through the hole.
6. Place the filter.
7. Vent the unit as instructed above.
8. Attach the can table assy back in COROB™ D300.

3.8 Replacing a pump

Every colorant has its own pump in the COROB™ D300. The pumps have NBR O-rings. The pumps are numbered from right to left, see figure 50. You can also see the numbering of the canisters in that same figure.



Figure 50: Numbering of the canisters and pumps.

The fastening order of the hoses and also the numbering of pumps and canisters is marked on figure 4 on page 3.

Each pump is dry tested pneumatically. The testing date is marked on a green label attached behind the dispensing module, see figure 51. Every spare part pump has a certification label of his own.

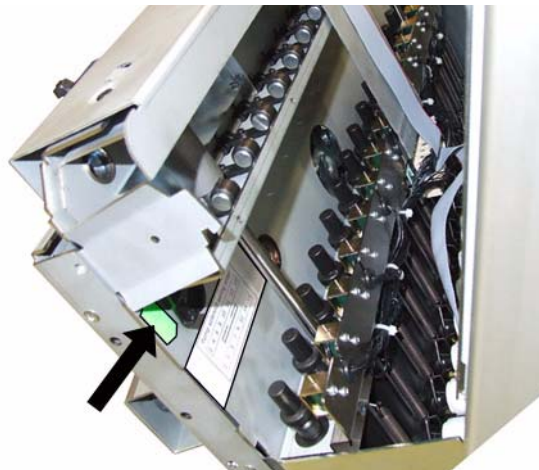


Figure 51: A green label with certification date is stuck on the dispensing module.

Tools required:

- Special tool, figure 52.
- Cross head screwdriver with magnetic head.

Procedure:

NOTE!: Place some paper or cloth under the pump and over the foot's cover plate to keep the machine clean. The cover plate is very difficult to change!

3.8.1 Removing a pump

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.
2. Remove front casing, see instructions on page 15.
3. Remove the humidifier cap.
4. Place an empty can under the nozzles.
5. Clean the nozzles and check that the nozzle hose is not blocked.
6. Remove the hydraulic can table, See "Removing the can table during service" on page 15
NOTE! If you are replacing the outermost pumps (numbers 1 and 16) you do not need to remove the can table.
7. Close the tap behind the pump, figure 53.



Figure 52: The special tool you need for replacing a pump and a canister.

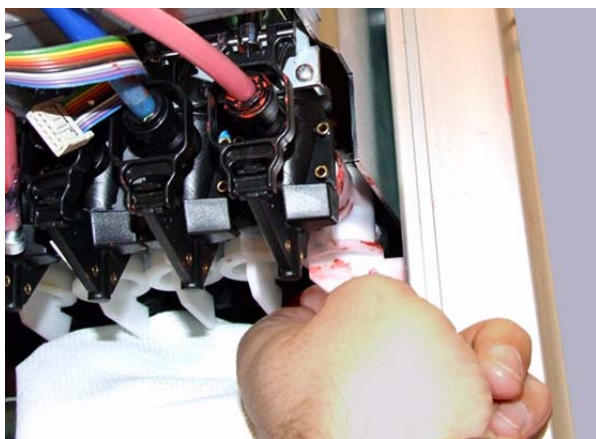


Figure 53: Close the tap behind the pump.

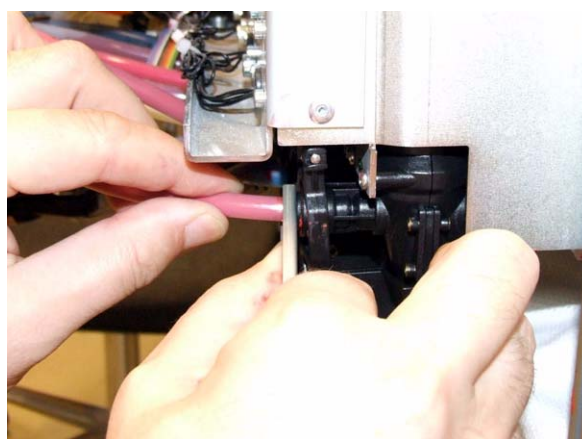


Figure 54: Press the pump's lock ring with the tool and pull out the hose from the pump.

8. Press in the lock ring of the pump's connector with the smaller end of the special tool (figure 52) and pull out the hose from the pump, see figure 54.
CAUTION! The hose can empty through the nozzle.
9. Lift up the end of the hose you removed and you do not dirty the machine.
10. Loosen the tap with the wider end of that special tool: Push the tap's sleeve backwards and the valve releases.
11. Open with a cross head screwdriver two screws, that fasten the pump to the dispensing module.
12. Pull down the pump together with the draft bar and the plunger.
13. Disconnect the draft bar and the plunger from the pump.

3.8.2 Installing a pump

NOTE!: The piston rod of the pump has to be partly out.



Figure 55: Install the pump so that the piston rod is lifted out a little.

1. Thread the pump from below through the hole in the adapter plate.
NOTE! Make sure that the pump's shoulder fills the hole, see figure 57.
2. Put the plunger into the solenoid's hole.
3. Push the pump forward so that the bodies of the screws are in the holes, see figure 58.
4. Fasten the draft bar to the pump.
5. Fasten the two screws.
6. Attach the tap into the pump and pull the sleeve of the tap forward with the wider end of that special too.
7. Open the tap.
8. Place the nozzle hose in position:
 - Push the hose as far as you can
 - Pull the pump's lock ring out about 1.5 mm with the special tool.
9. Check that the pump's piston is not in the lowermost position.
10. Check that the nozzle hose is not clogged after the installation because a clogged hose can damage the pump.
11. Place the can table back in position, if needed.
12. Switch on the COROB™ D300.
13. Dispense 150 millilitre colorant to fill up the hoses.
14. Check that the hoses are still fastened.
15. Replace the front casing and water reservoir.

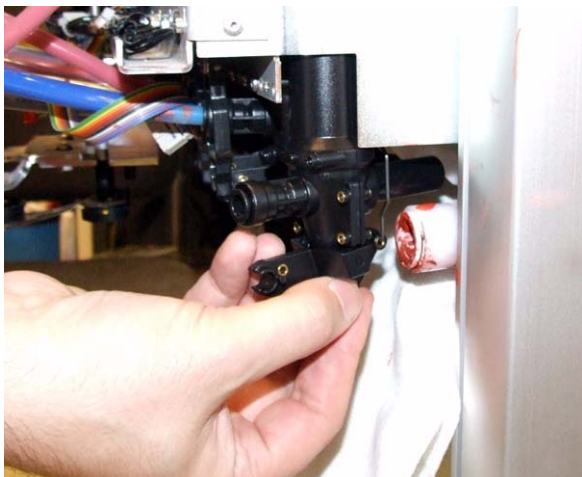


Figure 56: Turn the pump slightly and lift it up.

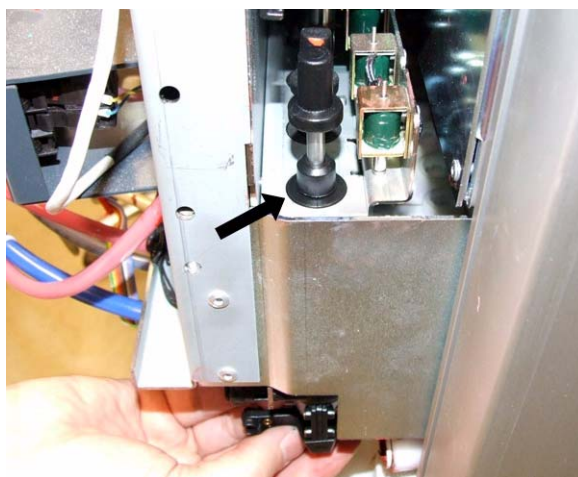


Figure 57: Push the pump so up that it's shoulder fills the upper hole.

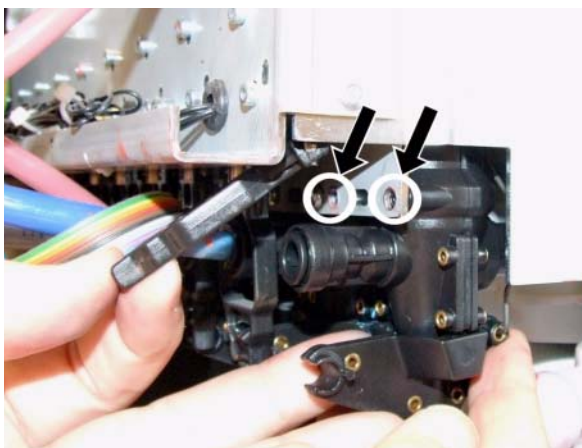


Figure 58: Push the pump forward so that you can see the screw bodies through the holes.

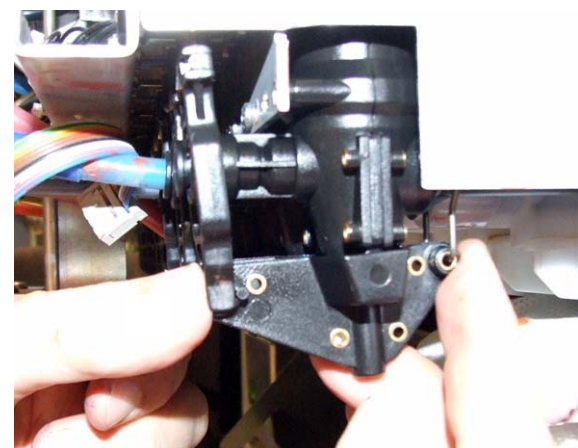


Figure 59: Attach the draft bar to the pump.

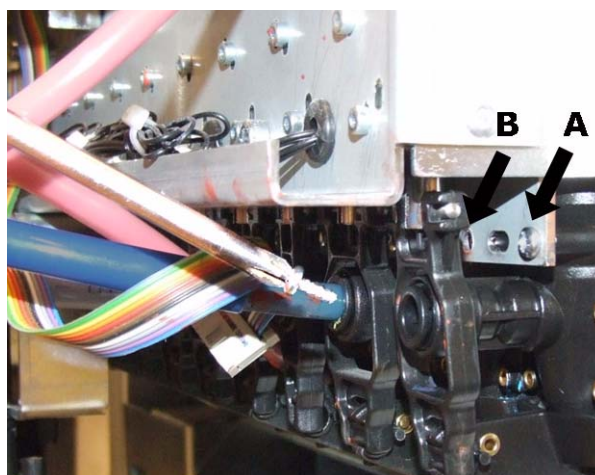


Figure 60: The pump is already fastened with one screw (A). The other screw goes in position B.

3.9 Replacing a canister

Replace one canister at a time so the canister order does not change. You can see the canister order in figure 50 on page 25 and a label attached inside the COROB™ D300's cover.

Tools required:

- Special tool

3.9.1 Removing a canister from the machine**Procedure**

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.
2. Remove front casing, see instructions on page 15.
3. Remove the corner frame on that side where you change a canister.
4. Remove the cover:
 - Turn the cover almost to the vertical position
 - Pull out the hinge from the hole in the frame,
 - Detach the other hinge same way.
5. Lift the back panel out of place.
6. Remove the side plate:
 - Lift the side plate up so that the rear hooks arise from the holes in the frame.
 - Turn the plate outwards => the front comes out from the beam's groove.
7. Close the tap behind the pump,
8. Remove the hose from the pump:
 - Place the special tool between the pump and valve => press backwards,
 - Pull out the tap from the pump.
9. Remove the wire from the stirring motor under the canister, see figure 65.
10. Drain colorant both from the canister and the hose to an empty can.
11. Lift the canister up and remove it from the rack, see figure 66.



Figure 61: A special tool that is needed when you change a canister.



CAUTION / IMPORTANT Handle, store, and dispose of all agents according to the instructions supplied with them.



Figure 62: Pull the hinge outwards and the hinge pin comes out from the hole in the frame.

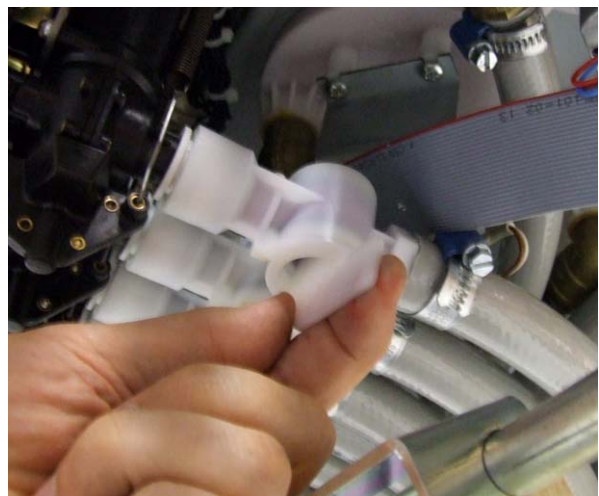


Figure 63: Close the valve behind the pump.



Figure 64: Place the tool between the pump and the sleeve and push away from the pump.

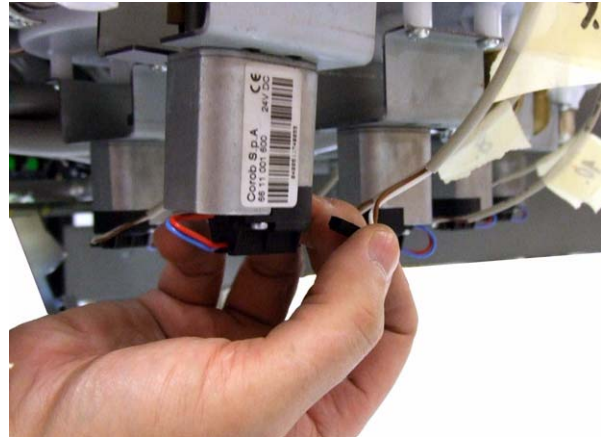


Figure 65: Disconnect the stirring motor's wire.

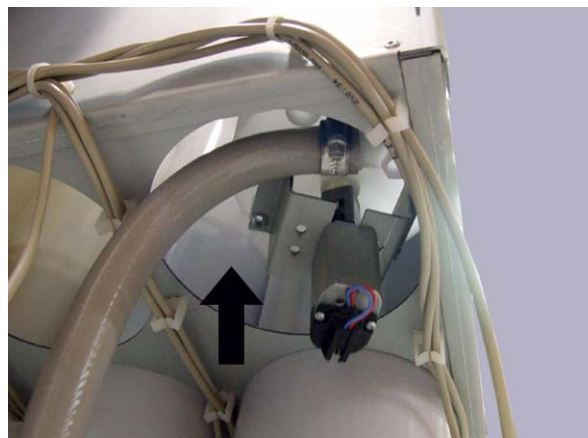


Figure 66: Pull up the canister and the hose.

3.9.2 Installing a canister

NOTE!: If there is no stirring motor in the new canister, remove the stirring motor from the old one and attach it to the new one.

Procedure

1. Remove the hose from the old canister and fasten it to the new one.
2. Place the canister over the rack for canisters and lower it in position.
3. Fasten the hose into the pump:
 - Push the hose into pump's suction side.
 - Place the special tool between the tap and it's sleeve and push the sleeve outwards from the valve.



Figure 67: Thread the canister from above in position.

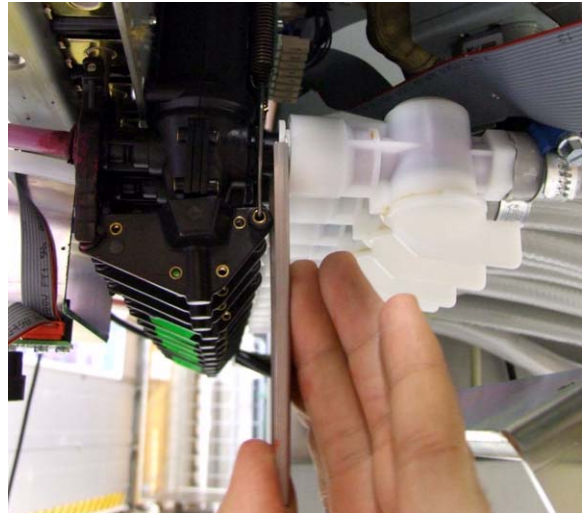


Figure 68: Place the tool between the tap and its sleeve and push the sleeve outwards.

4. Disconnect the stirring motor wire.
5. Place the side plate in position:
 - Put the front into the beam's groove
 - Place the rear hooks into the holes in the upper frame.

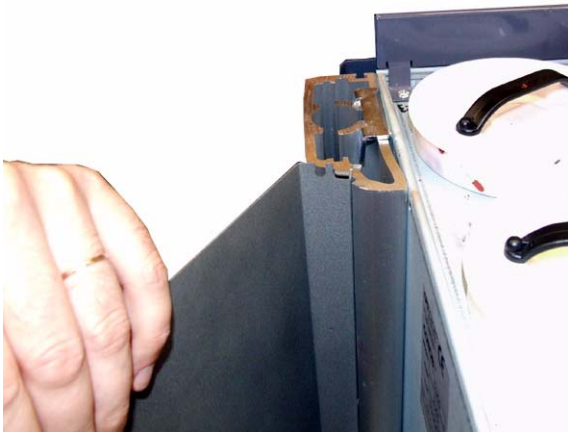


Figure 69: Place the side plate's front into the beam's groove.



Figure 70: Thread hooks in back of the side plate into the holes of the upper frame.

6. Put the back panel back in place:
 - Thread the hooks into the holes in the side plate
 - Lower the back panel down
7. Put the cover in position.
8. Place the corner frame in place.
9. Switch on the COROB™ D300.
10. Dispense 150 millilitre of colorant from the new canister to fill in the hoses.

3.10 Replacing a sensor

COROB™ D300 has 3 sensors: pulse (PULSE), zero (ZERO) and humidifier cap (CUP). The name of the sensor, put in brackets after the sensor's name, is also written on the sensor board. Locations of the sensors are shown in figure 71. In addition, COROB™ D300 has one pair of sensors: IR transmitter and receiver. This infrared sensor detects if there is a paint can on the can table.

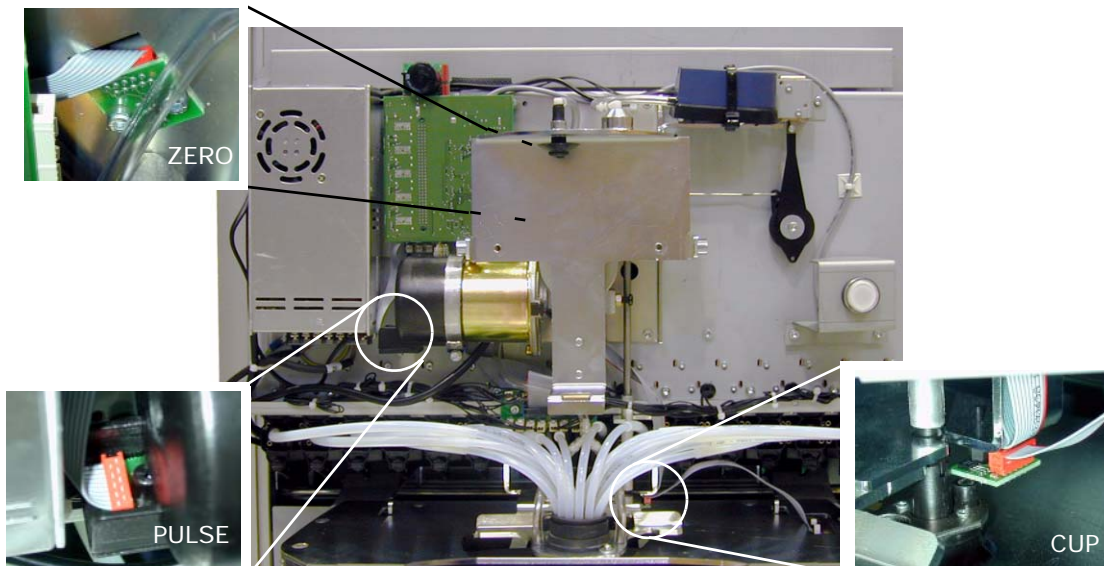


Figure 71: Locations of the sensors

The zero sensor is behind the support of the water reservoir, see figure 12 on page 7. The sensor is attached with two Allen screws to the motor bedstead of the dispensing motor. The pulse sensor is attached to the casing of the dispensing motor. The sensor board is attached to the casing with a slothead screw.

The humidifier cap sensor is attached with two crosshead screws to the adapter plate of the nozzle.

Tools required:

- 2.5 and 3 mm Allen key
- Cross head screwdriver

Procedure

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.
2. Remove front casing, see instructions on page 15.
3. Open the Allen or crosshead screw(s) in the board and remove the sensor.
4. Disconnect the cable from the sensor.
5. Attach the cable to a new sensor.
6. Install the new sensor and tighten the screws.
7. Plug the mains cable to the outlet and switch on the machine.
8. Test that the sensor is working properly.

Can on can table sensor

COROB™ D300's can on can table sensor is a infrared (IR) sensor that consists of two parts: transmitter (B in figure 72) and receiver (A in figure 72). The sensor is on the top of the can table on both sides of it. IR sensor is activated when the beam coming from the transmitter does not reach the receiver. This happens when you put a paint can on the can table and lift it up against the nozzles.

The sensors are fastened to supports that are embedded into the can table's beams.



Figure 72: The can on can table -sensors, IR transmitter B and IR receiver A, are located in upper part of the can table assy.

How to check the functioning of the IR sensors:

1. Station yourself beside the left guide of the can table that is beside the IR receiver.
2. Cover the holes in the guide.
3. Look over the can table to the upper part of the right-hand guide
=> through the lower hole (marked with an arrow in figure 73) you can see a red light.

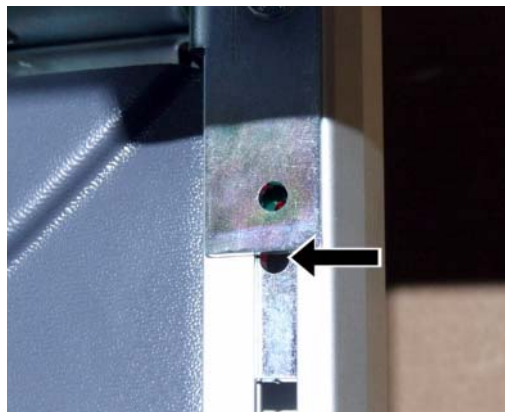


Figure 73: When you cover the holes in front of the IR receiver you can see a red light through the lower hole (arrow) on the transmitter's side.

3.11 Replacing the processor and the connector board

The processor and the connector board of the COROB™ D300 is behind the front casing, in the dispensing module, see figure 5 on page 4. The connector board is behind the processor board.

Tools required:

- Screwdriver
- 3 mm Allen key

Procedure:

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.
2. Remove front casing, see instructions on page 15.
3. Remove the processor board by pulling it carefully away from the connector board.

NOTE!: Carefully look how the wires and cables are connected to the board before you disconnect them.

4. Disconnect the wires and cables from the connector board.
5. Open the two nuts which connect the connector board.
6. Replace the board with new one and reconnect the wires and cables. Make sure that the connections are done right, see figure 75.
7. Press the processor board back in place.
8. Replace the front casing and the water reservoir.
9. Plug the mains cable and switch on the machine.

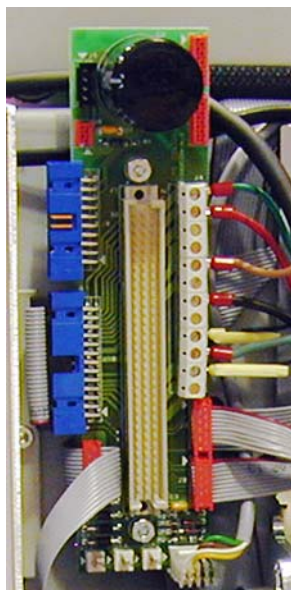


Figure 74: The connector board.

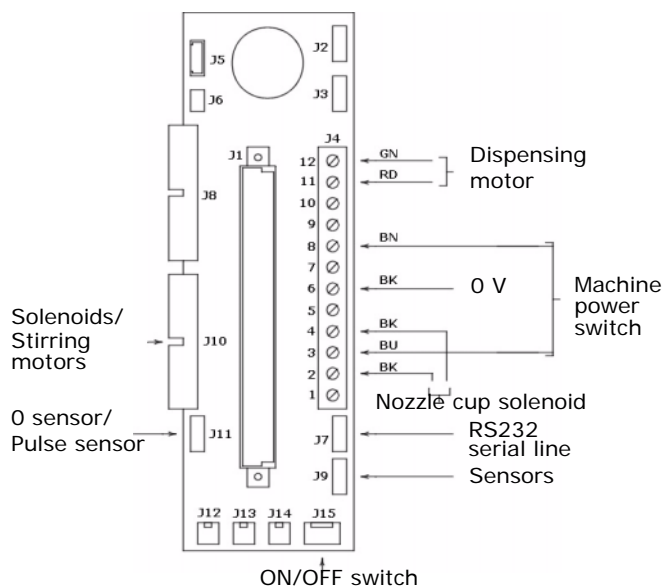


Figure 75: The connections of the connector board.

3.12 Replacing a motor

The COROB™ D300 has two different kind of motors: the other type is for stirring and the other for dispensing.

3.12.1 The dispensing motor

The dispensing motor is behind the front cover. The motor is screwed into the motor bedstead, which is attached with four screws to the motion plate. The impulse wheel is inside the casing in the other end of the motor.

NOTE!: It is very difficult to remove the dispensing motor. Please contact CPS Color Equipment Oy before detaching.

Tools required:

- 13 mm set wrench
- 2,5; 3; 4; and 5 mm Allen key

Detaching the dispensing motor

Procedure:

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.

2. Remove the front casing according to instructions on page 15.
3. Remove the can table, see "Removing the can table during service" on page 15.
4. Disconnect the hoses from the angle joints of the water reservoir holder.
5. Remove the reservoir's holder which is fixed with two M8 screws to motor bedstead.
6. Remove the processor board.
7. Lift manually the dispensing bar to upper position
=> the screw of the crank mechanism moves to the hole in the motor bedstead.



Figure 76: Lift up the dispensing bar manually.

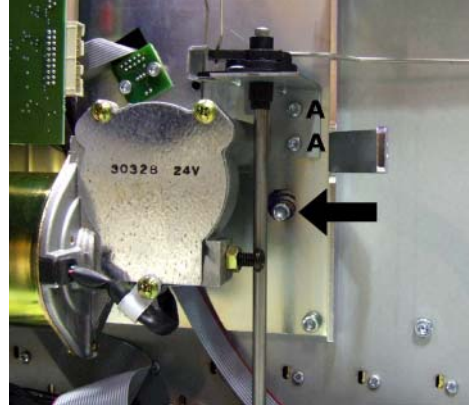


Figure 77: The screw of the crank mechanism is behind the hole in the motor bedstead.

8. Remove the ON-OFF switch and air pump wires from supports, letter A in figure 78.
9. Disconnect the dispensing motor wires (B in figure 78) from the connecting board.
NOTE! Remember the places of the wires!
10. Disconnect the flat cable of the nozzle closer sensor (C in figure 78) from the connecting board.
11. Disconnect the 0 sensor (D in figure 78) from the motor bedstead.
12. Remove the support that holds the nozzle closer moving mechanism: open two screws (A in figure 77)

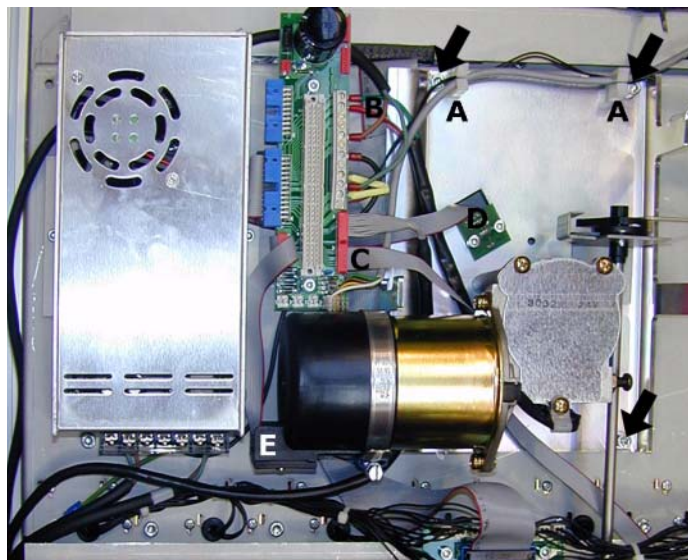


Figure 78: The disconnecting wires and cables are marked with letters, also the motor bedstead's fixing screws are marked with arrows to the figure.

13. Open the screw of the crank mechanism, marked with an arrow in figure 77.
14. Open the four fixing screws of the motor bedstead, marked with arrows in figure 78.

15. Tilt the dispensing module forward according to instruction "Tilting the dispensing module" on page 16.
16. Remove the cover from the top of the dispensing bar, see figure 79.
17. Remove the cable tray behind the dispensing module, see figure 80.
18. Lock the dispensing bar to upper position for example with self-locking pliers.
19. Remove the solenoid rail (See "Changing the solenoid rail assembly" on page 17) to make sure the solenoids stay undamaged.
20. Remove the nut of the motor's driving crank behind the dispensing module, see figure 81.
21. Put a long screwdriver behind the motor bedstead and wrench the crank out from the motor shaft. The figure 82 shows where to place the screwdriver.
22. Disconnect the pulse sensor's cable from the motor.
23. Open the three screws that fasten the motor to the motor bedstead and unfasten the motor.

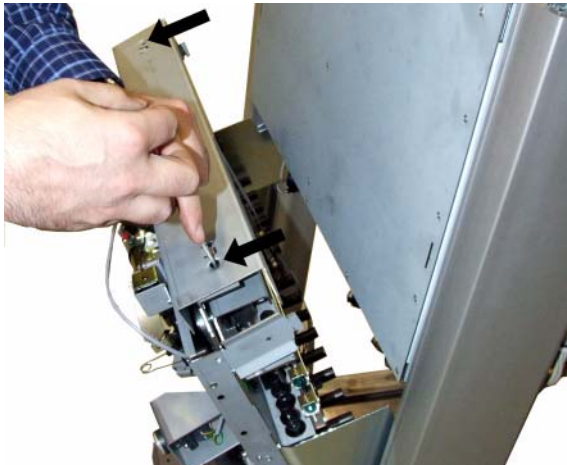


Figure 79: The cover of the motion plate is fastened with two screws (arrows).

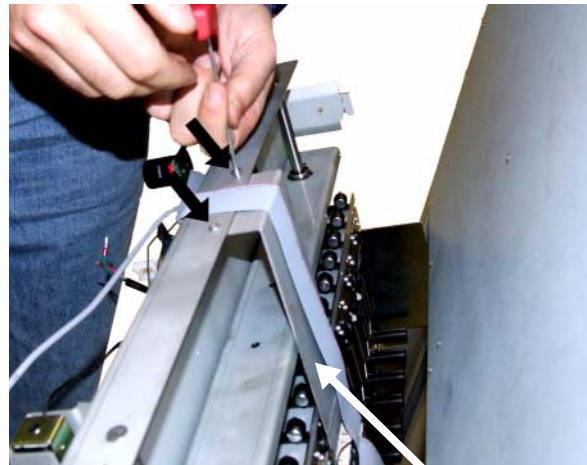


Figure 80: The cable tray that protects the cable is fastened with two screws to the motion plate (arrows).



Figure 81: Use a socket wrench to remove the nut of the motor's driving crank.

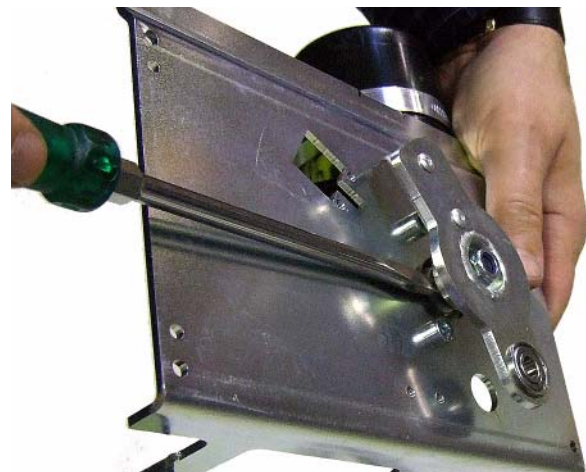


Figure 82: Put a screwdriver between the actuator and the motor bedstead.

Fastening the dispensing motor

Procedure:

1. Fasten the dispensing motor to the motor bedstead.
2. Make sure that the actuator's shaft is seen through the hole behind the dispensing module.

NOTE!: Check that all the piston rods are lifted up at least 1cm.

3. Release the dispensing bar that is open the self-locking pliers.
4. Screw the nut in place behind the dispensing module.
Tighten so that you press the set wrench against the back panel to make sure that the actuator does not move.

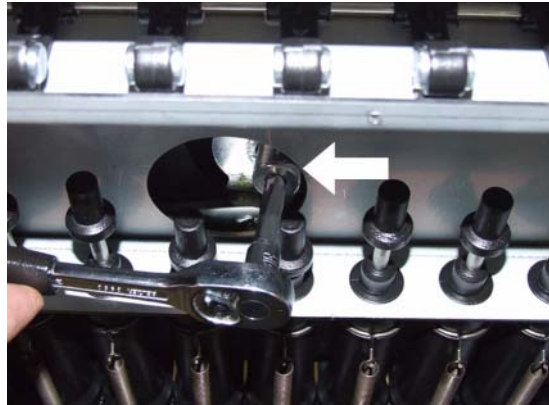


Figure 83: Press the wrench against the back panel (white arrow), when you tighten the nut.

5. Lift the dispensing module up so that it hinges on the catches.
6. Fasten the motor bedstead with four screws (longer ones below) in place.
7. Connect the pulse sensor's cable to the motor.
8. Connect the nozzle closer's cable to the connecting board.
9. Put the ON OFF switch and air pump wires back to supports.
10. Fasten the 0 sensor back in place.
11. Connect the motor's wires to the connecting board.
12. Lift up the nozzle closer mechanism and fasten it with two screws.
Tighten the screws while lifting the support and pushing it little right.
13. Tilt the dispensing module.
14. Lift up the dispensing bar.
15. Fasten the solenoid rail in position, see "Changing the solenoid rail assembly" on page 17.
16. Fasten the cable tray and the cover in position.
17. Lift the dispensing module back and lock with screws in position.
18. Fasten the water reservoir's holder in position, connect the hoses to it.
19. Put the processor board in position.
20. Fasten the can table, the front casing back in position and attach the water reservoir.
21. Start the COROB™ D300
22. Test the pulse and the 0 sensors:
(Koeedriver: D300 tests, see "Encoder and zero sensor test" on page 45)

3.12.2 The stirring motors

There is a stirring motor under each colorant canister. You need to change the stirring motor if stirring is not working.

Tools required:

- PH1 and PH2 Crosshead screwdriver

Procedure:

1. Switch off the COROB™ D300 and unplug the mains cable from the outlet.
2. Remove the protective cover from top of the canisters.
3. Open two screws on top and remove the back panel.
4. Remove side plates.
5. Remove the lower plate.
6. Disconnect the wire from that motor you want to change.
7. Open 4 crosshead screws in the bottom of the canister and detach the support with the motor.
8. Open 2 screws and detach the motor from the support, see figure 84.
9. Fasten a new motor and assemble the COROB™ D300 in opposite order.

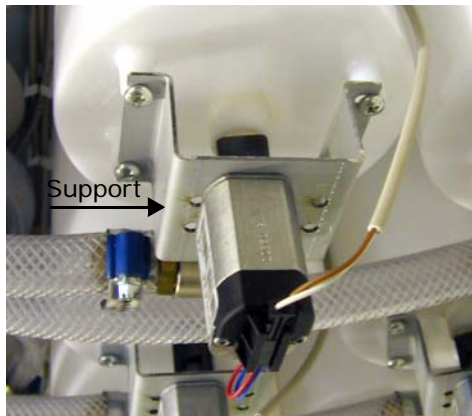


Figure 84: The stirring motor is attached to the canister with a support.

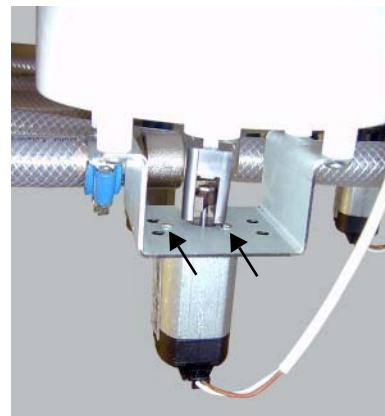


Figure 84: The motor is fastened to the support with two screws.

4 SERVICE OPERATIONS

Check following items during every service call, however at least once a year:

- Hoses
Check the colorant hoses and their fastenings. Change a leaking hose to a new one.
- Stirring mechanism
Check that all the impellers are working correctly.
- Cables and switches
Check the condition of the serial line and mains cable. Check the functioning of the machine power, main and ON/OFF switch. Change a cable or switch, if necessary.
- Hydraulic can table
Check functioning of the can table with a weight on it.
Check functioning of the pedals. If the hydraulics does not work smoothly, vent the hydraulic pump, See "Venting" on page 23.
- Puncher (optional)
Check the functioning of the puncher. Clean the blade.
- Nozzles
Check that the nozzles are clean.
- Moistening
Check the hoses and their fastenings. Empty the water reservoir, check it's condition and fill it with clean water. Check that the air pump is working properly.
Check the functioning of the humidifier cap and the sensor. Clean the cup and replace the plastic foam with a new one.
- Pumps
Replace leaking pumps with new ones.
- Greasing
Clean all parts that need to be greased, like motors, and grease them with Vaseline.
- PC and keyboard
Check condition of the PC, monitor, keyboard, mouse and cables. Also check their fastenings. Remove dust from PC.

5 ESSENTIAL ERROR CODES

Error code 8000: Photocell. No can on the can table.

Explanation:

The can on can table sensor informs, that there is no can on can table during dispensing.

Operating method:

The COROB™ D300 checks that the 'can on can table' sensor (IR sensor) is activated during dispensing. This ensure that you do not dispense without having a can under the nozzles.

Occurrences:

A can is missing or it is placed with negligence on the can table and the sensor is not activated.

Suggested solutions:

Check that the can table is lifted high enough so that the can is positioned on sensor's range.

Check the operation of the 'can on can table' sensor, see instruction on page 33.

Error code 8002: OFFLINE button pressed.

Explanation:

The OFFLINE switch is pressed down and then released in the COROB™ D300's front panel.

Operating method:

When you press the COROB™ D300's OFFLINE switch it interrupts machine's functions.

Also the communication to the PC is interrupted. Only after you have released the button in normal position the PC informs you for example about an error in PC programme.

Occurrences:

The switch is pressed to interrupt an unwanted function or during service operations to prevent for example mechanical movements.

Suggested solutions:

Release the OFFLINE switch.

If the OFFLINE switch is released and the error still occurs, check condition and connections of the switch.

Note:

When OFFLINE light is blinking it means that the switch is pressed (release when needed) or the machine is executing Init/Reset function and driving the dispensing bar to home position.

When the OFFLINE light is unlit the machine is in Busy state and is not able for example to communicate with the PC.

Error code 8102: E7 error

Explanation:

The COROB™ D300 does not accept given command, the content of the command is faulty.

Operating method:

The parameters of the command code are not logical or within allowed limits. The COROB™ D300 might be in Busy state when the command arrives.

Occurrences:

The error might basically occur in every function of the machine.

Suggested solutions:

Check possible parameters that are connected to this function from the programme's configuration.

Try to repeat the function.

If the error reoccurs report about the matter to those who are responsible for the maintenance of the COROB™ D300.

Error code 8104: Busy error. Machine is busy.

Explanation:

The COROB™ D300 is in Busy state and does not accept given command.

Operating method:

The COROB™ D300 is performing a function and cannot accept next command.

Occurrences:

The error might basically occur in every function of the machine.

Suggested solutions:

Check possible parameters that are connected to this function from the programme's configuration.

Try to repeat the function.

If the error recurs report about the matter to those who are responsible for the maintenance of the COROB™ D300.

Error code 8197: CRC error on data receive.**Explanation:**

PC programme gets an answer that includes a CRC error from the machine.

Operating method:

The PC checks the answer coming from the machine with a CRC checking number that is added to the message. This way the functioning and correctness of the data is ensured.

Occurrences:

All the commands and functions.

Suggested solutions:

Check that the serial line cable is unbroken and properly connected.

Error code 8199: No reply from the machine.**Explanation:**

The PC does not get response from the machine, that is the serial line connection is not working.

Operating method:

All COROB™ D300's communication commands are transmitted from the PC using serial line connection. The PC programme requires an answer back from the COROB™ D300 to given commands within certain time.

Occurrences:

A command is given from the PC to COROB™ D300 but PC has not received an answer back.

Suggested solutions:

Check that COROB™ D300 is switched on (OFFLINE light burns).

Check the condition and connection of the serial line cable.

Check that right serial line port is used in the PC and the parameters for the serial line are correct.

Error code 8501: Error: Cap closed during dispensing**Explanation:**

The nozzle closer sensor informs that the nozzle closer is not open during dispensing.

Operating method:

The COROB™ D300 checks that the nozzle closer is open during dispensing. This is used to prevent dispensing into the nozzle cup.

In the beginning of dispense the movement of the dispensing motor is connected with cup solenoid for a specific pulse period to open the nozzle cup with the lever mechanism. After this the nozzle cup sensor has to be in open status (OFF).

Occurrences:

The nozzle cup does not for some reason open properly.

Suggested solutions:

Check that the nozzle cup is clean from colorant and has not stuck to the lower surface of the nozzle preventing the movement of the cup.

Check free movement of the nozzle cup by manually opening and closing the cup.

Check the functionality of the sensor.

Check the functionality of the solenoid that controls the nozzle cup and that the lever mechanism of the cup works properly.

6 ELECTRICAL DIAGRAM

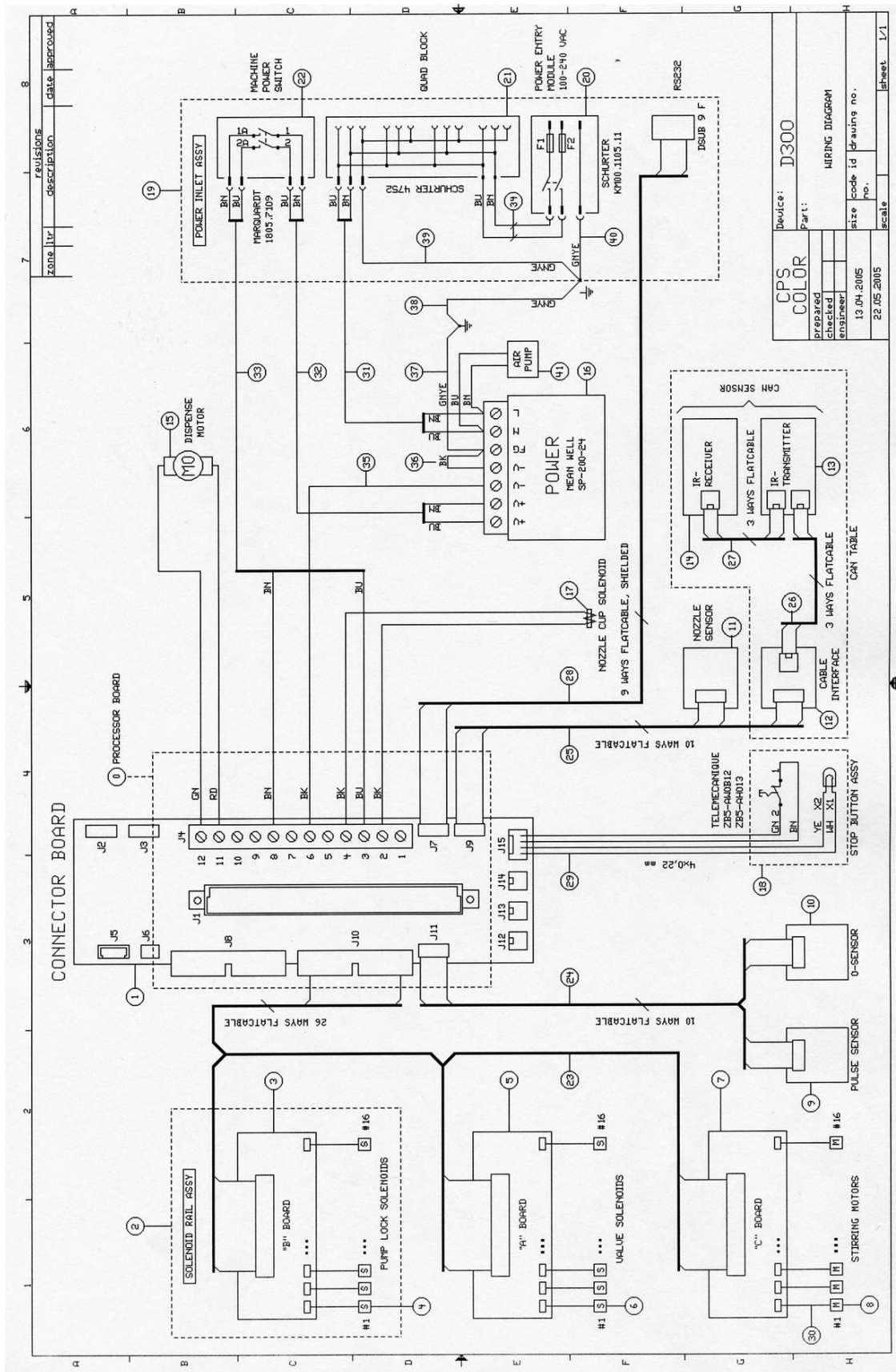


Figure 85: The electrical diagram of the COROB™ D300 with sixteen canisters.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio Specification Spezifikation
0	V43786	0	PROSESSORIKORTTI	PROCESSOR BOARD	PROZESSORKARTE	
1	V44752	0	LIITINKORTTI	CONNECTOR BOARD	SCHNITTSTELLENKARTE	D300CON-A.1
2	V44249	0	SOLENOIDIKISKO KP sisältää osat 3 ja 4	SOLENOID RAIL ASSY includes parts 3 and 4	SOLENOIDSCHIENEZUS. enthielt Parts 3 and 4	
3	V44844	0	LIITYNTÄKORTTI B	INTERFACE BOARD B	ANSCHLUSSKARTE B	D300B-A.1
4	V43561	0	SOLENOIDI (PUMPPU)	SOLENOID (PUMP)	SOLENOID (PUMPE)	141-05B22XX SMO-0520S06AU
5	V44845	0	LIITYNTÄKORTTI A	INTERFACE BOARD A	ANSCHLUSSKARTE A	D300A-A.1
6	V43771	2	SOLENOIDI (VENTTIILI)	SOLENOID (VALVE)	SOLENOID (VENTIL)	142-08A62XX SMO-0837L9.8CJ
7	V44846	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300C-A.1
8	V45162	0	MOOTTORI (HÄMMENNYS)	MOTOR (STIRRING)	MOTOR (UMRÜHRUNG)	6611001600 BUEHLER
9	V43769	0	PULSSIAANTURI	PULSE SENSOR	PULSSENSOR	PULS
10	V43773	0	NOLLA-ANTURI	ZERO SENSOR	NULLSENSOR	ZERO
11	V43676	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	CUP
12	V44971	0	KAAPELISOVITIN	CABLE INTERFACE	KABELAUSGANG	
13	V06270	0	IR LÄHETINKORTTI	IR TRANSMITTER BOARD	IR ABSENDERKARTE	SA 814.V1
14	V06271	0	IR VASTAANOTINKORTTI	IR RECEIVER BOARD	IR ABNEHMERKARTE	SA 815.V2
15	V43770	0	MOOTTORI (ANNOSTELU)	MOTOR (DISPENSING)	MOTOR (DOSIERUNG)	COROB PART NO: 1M2-614-01
16	V43803	0	VIRTALÄHDE	POWER SUPPLY	STROMVERSORGUNG	MEAN WELL SP-200-24
17	V43771	2	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
18	V45099	1	PYSÄYTYSKYTKIN KP	STOP BUTTON ASSY	HALTEKNOPFZUS.	
19	V45098	0	PÄÄJOHTOSARJA	MAIN WIRE HARNESS	HAUPTKABELSERIE	
20	V44748	0	KYTKIMELLINEN PISTOKE	POWER ENTRY MODULE	STECKER MIT SCHALTER	
21	V41201	0	PISTORASIA	WALL SOCKET	STECKDOSE	1,5 MM
22	V43933	0	KYTKIN (SÄHK)	SWITCH	SCHALTER	149-286
23	V45056	0	SOLENOIDIKAAPELI	SOLENOID CABLE	SOLENOIDKABEL	
24	V45057	0	ANTURIKAAPELI (LATTAKAAPELI)	SENSOR CABLE	SENSORKABEL	

44 6 - Electrical diagram

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio Specification Spezifikation
25	V45058	0	ANTURIKAAPELI (LATTAKAAPELI)	SENSOR CABLE	SENSORKABEL	
26	V45059	0	ANTURIKAAPELI (LATTAKAAPELI)	SENSOR CABLE	SENSORKABEL	
27	V45060	0	ANTURIKAAPELI (LATTAKAAPELI)	SENSOR CABLE	SENSORKABEL	
28	V45061	0	SARJALIIKENNEKAAPELI	SERIAL LINE CABEL	RS-KABEL	RS232
29	V45055	0	KAPELI	CABLE	KABEL	
31	V45088	0	SYÖTTÖJÄNNITEKAAPELI	MAIN POWER CABLE	NETZKABEL	230 V
32	V45089	0	KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	1 24 V
33	V45090	0	KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	2 24 V
34	V45091	0	SYÖTTÖJÄNNITEKAAPELI	MAIN POWER CABLE	NETZKABEL	QUAD BLOCK
35	V45092	0	KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	0 V (+24 V)
36	V45093	0	MAADOITUSKAAPELI	GROUND CABLE	ERDUNGSKABEL	+24 V
37	V45094	0	SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	+24 V
38	V45095	0	SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	
39	V45096	0	SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	QUAD BLOCK
40	V45097	0	SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	
41	V43890	0	ILMAPUMPPU	AIR PUMP	LUFTPUMPE	ELITE 799

7 KOECDRIVER

Koeedriver program is used to configure and test CPS Color COROB™ D300 machine functions. Program is reading normal Dispense Manager database, so before using Koeedriver you should configure the COROB™ D300 machine configuration ready.

After start up of the Koeedriver you should check from program status bar that the firmware inside the COROB™ D300 is having proper program version, in the following picture firmware version is 501144. If the program is starting slowly then most likely the serial connection to the machine is broken, or the machine is in power down state.

Below program functions are described one by one.

7.1 Tests

7.1.1 Serial test

First natural function to test is the serial communication between the PC and the COROB™ D300. Check that you have connected serial line cable from the PC COM1 (or some other defined com port) to machine and run the test.

Test is started by pressing **Start** button when 'Serial line' is enabled from Tests panel. During tests the first number in test data window shows successful tests, the second number is for test errors. Stop the test by pressing **Stop** button when test is ready.

7.1.2 Encoder and zero sensor test

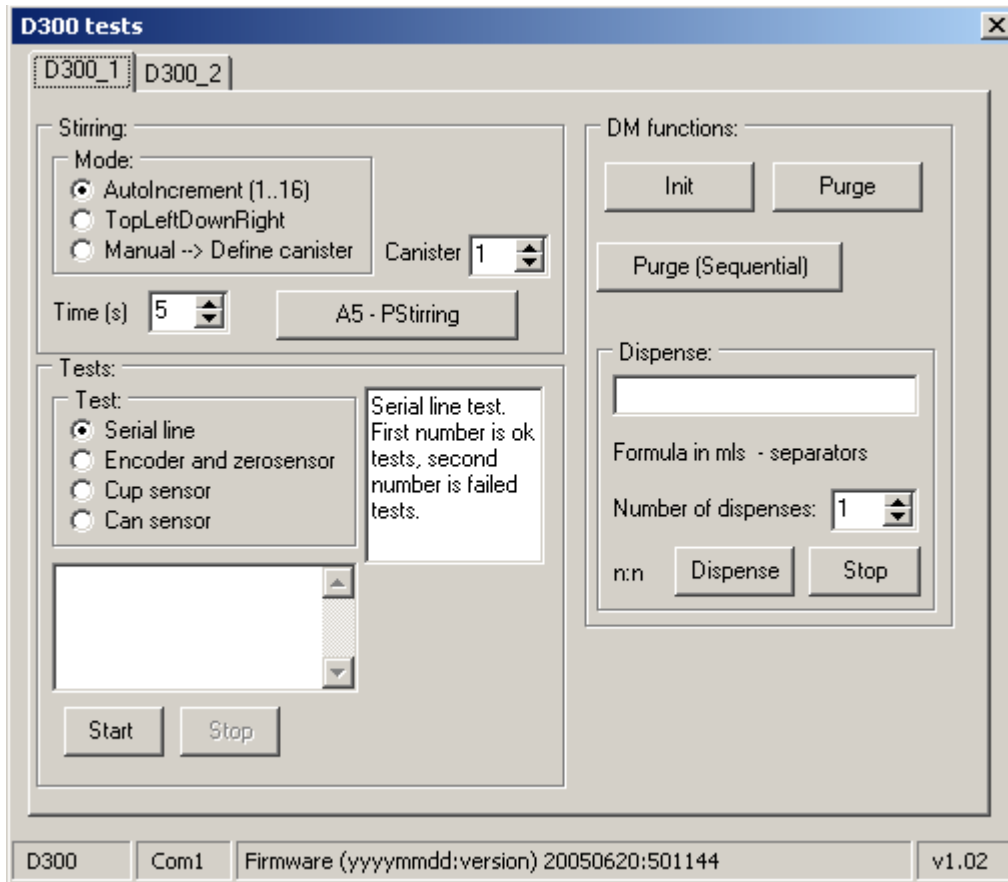
Second test is for testing dispensing motor pulse encoder (**PULSE**) and also the zero sensor (**ZERO**) that synchronises the pulse counting. Select this test in test selection panel and start by pressing **Start** button. Note that you can change the motor speed set up (7..15) during the test, test tolerance is ± 2 pulses. Once again okay and error counter number is shown on the screen.

7.1.3 Cup sensor test

Next test on the list is cup sensor (**CUP**) test. During the test you must manually move the autocup from/to the nozzle to see when the sensor state changes from ON to OFF. Normally when autocup is closed the sensor is ON (active), when totally open the sensor is in OFF state.

7.1.4 Can sensor test

Last on the list is test for the can sensor, that is an infrared sensor situated in can table structure. By putting e.g. your hand between the IR transmitter and IR receiver you can activate the sensor to ON (active) state.



7.1.5 Stirring tests

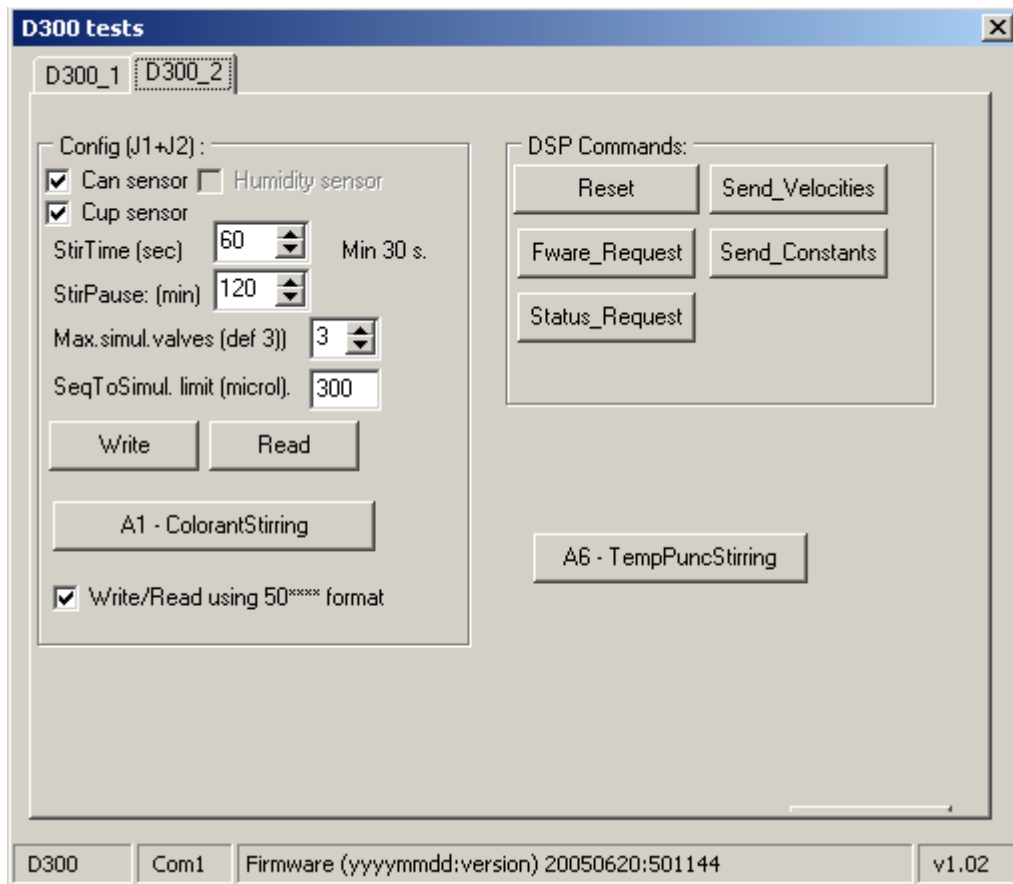
Normally the COROB™ D300 is stirring colorants automatically using predefined stirring parameters, normal setup for the COROB™ D300 is like 1 minute of stirring in hour for each colorant. Note that there are separate stirring motors for each canister, also the active stirring times can be different for each canister.

We can also force the stirring to happen at once e.g. to test the stirring motors.

Select a proper time for stirring (e.g. 5 seconds). If you want to test all motors then select test mode **TopLeftDownRight**, then test is done for all canisters in that order. If you want to test only one canister/motor then select **Manual mode** and select also the canister to test. Test is activated pressing **A5-Stirring** button, after test interval time the test stops automatically.

7.2 Configuration settings

Program also allows some basic configuration setups for the COROB™ D300 machine, see below the available options.

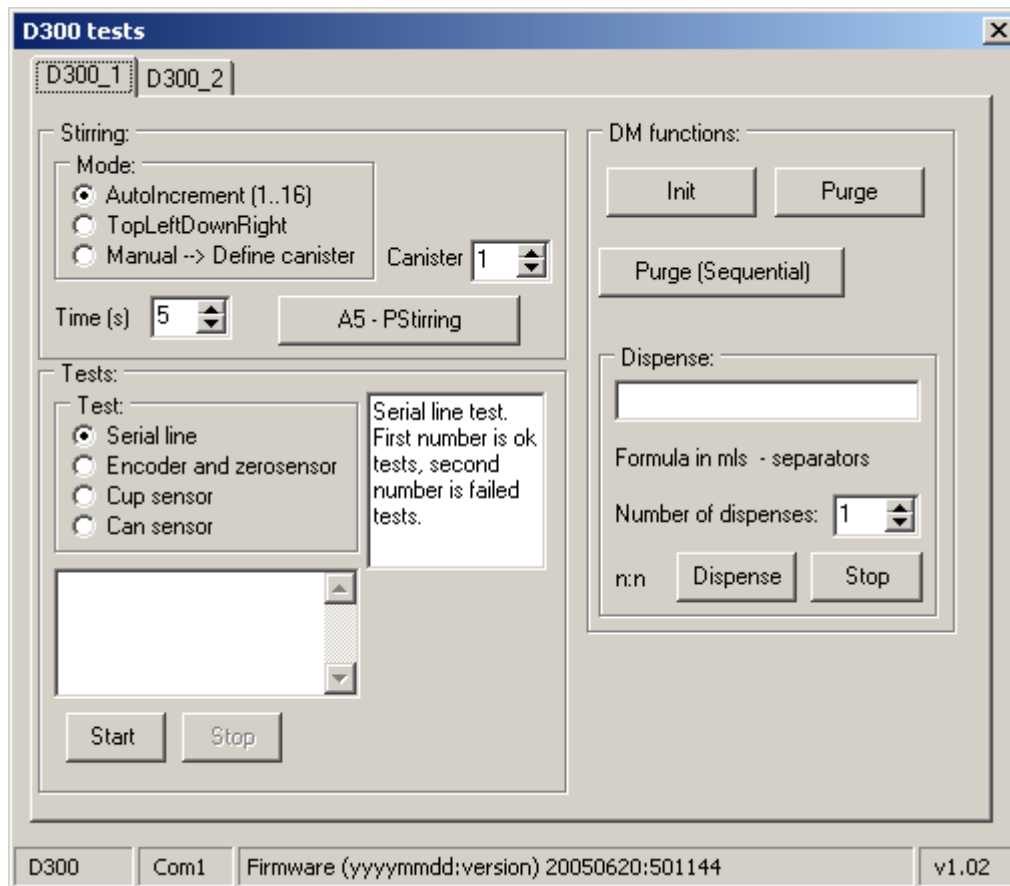


Basically you can disable cup and can sensors, if not present or not working. You can also setup the stirring time and stirring pause intervals for all colorants, **Write** button updates selected setting to machine, **Read** button reads and creates a report about parameter values read from the machine.

7.3 Purge, init and dispense commands

Final tests cover the testing of pump clamping mechanisms and the proper opening of valves when dispensing.

Function **Purge (Sequential)** dispenses pumps one by one starting from the first pump. Having the front cover open its possible to see that right pump is picked from the down position to dispense and later that right valve is opened when the dispense is activated.



Purge button manages the normal purge, purge amounts are controlled by Dispense Manager Configuration software.

There is also **Init** button available to do normal machine initialisation.

Finally you can also run normal **Dispense** command. Configure the formula in the formula field in ml, use spaces to separate numbers. Enter first canister data in a number then the corresponding formula in ml.

Example: Formula 1 2 3 4

means 2 millilitres (ml) from canister number 1 and 4 mls from canister number 3.

NOTE!: You can run the formula more than once by putting **Number of dispenses** field value bigger than 1.

COROB™ D300-16/SR
COROB™ D300-24/SR

Automaattinen sävytyskone
Automatic dispensing machine
Die automatische Abtönmaschine

Varaosat * Spare Parts * Ersatzteile



CPS Color Equipment Oy

COROB™ D300

*Varaosat * Spare Parts * Ersatzteile*

Version 1/07

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
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Varaosakirjan käytöstä

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Kuvissa  -merkityistä osanumeroista ([sininen](#)) on linkki alikokoonpanoon.

Kuvissa  -merkityt (keltainen kolmio) osat kuuluvat COROB™ D300 SR -koneeseen.


Luettelon lopussa on varaosien tilauskaavake sekä kaavake varaosien palautusta varten.

Varaosaluettelo on voimassa toistaiseksi.

Varaosille annamme vuoden takuun.

Use of the spare part manual

The spare part catalogue consists of a list of contents, pictures of spare parts, spare part tables and price list. In a table the parts are listed in numerical order. The catalogue also includes spare parts without a code that cannot be ordered separately. These parts have usually a DIN number.

If the part number ([blue](#)) is marked with , you can jump to a subassembly.

If the part is marked with (yellow triangle) , the part belongs to a COROB™ D300 SR machine.


There is a spare part order form and a form for returning spare parts at the end of the catalogue.


The spare part catalogue is valid until further notice.

The spare parts have a one-year warranty.

Benutzung des Ersatzteilverzeichnis

Der Ersatzteilkatalog umfaßt das Inhaltsverzeichnis sowie Abbildungen der Ersatzteile, Teiletabellen und eine Preisliste. In den Tabellen sind die Artikel in numerischer Reihenfolge aufgelistet. Der Katalog enthält außerdem Ersatzteile, die nicht separat bestellt werden können. Für diese Artikel ist kein Bestellcode angegeben, sondern gewöhnlich die DIN-Nummer.

Wenn die Teile (die Nummer ist [blau](#)) ist markt als , finden Sie eine Verbindung zu dem Unterzusammenbau.

Wenn die Teile is markt als  (gelbe Dreieck), gehört diese Teile zu der COROB™ D300 SR Maschine.

Ein Bestell- und ein Retourenformular für Ersatzteile finden sich am Ende des Katalogs.

Der Ersatzteilkatalog ist bis auf Weiteres gültig.

Auf die Ersatzteile wird eine Garantie von einem Jahr gewährt.

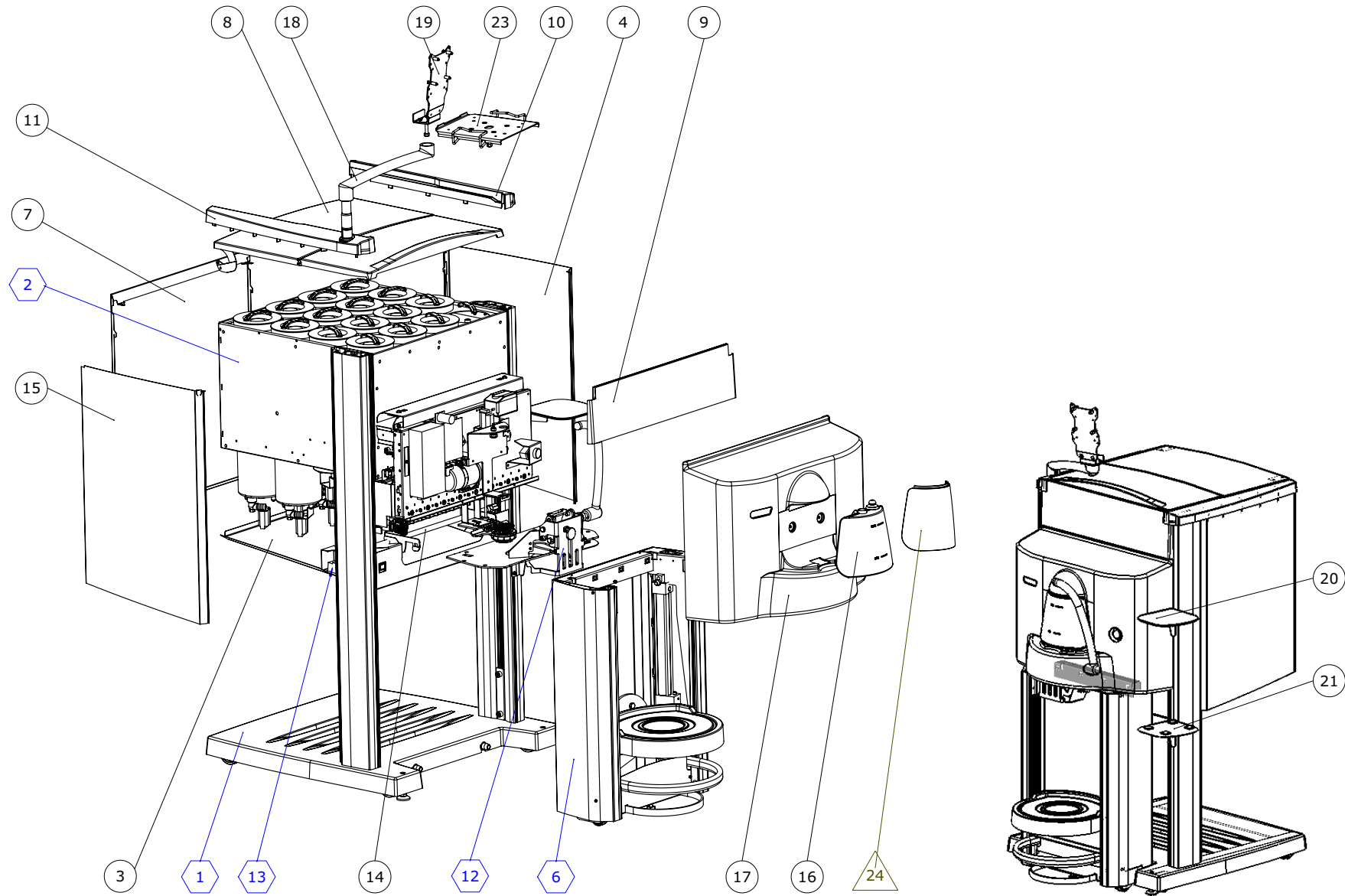


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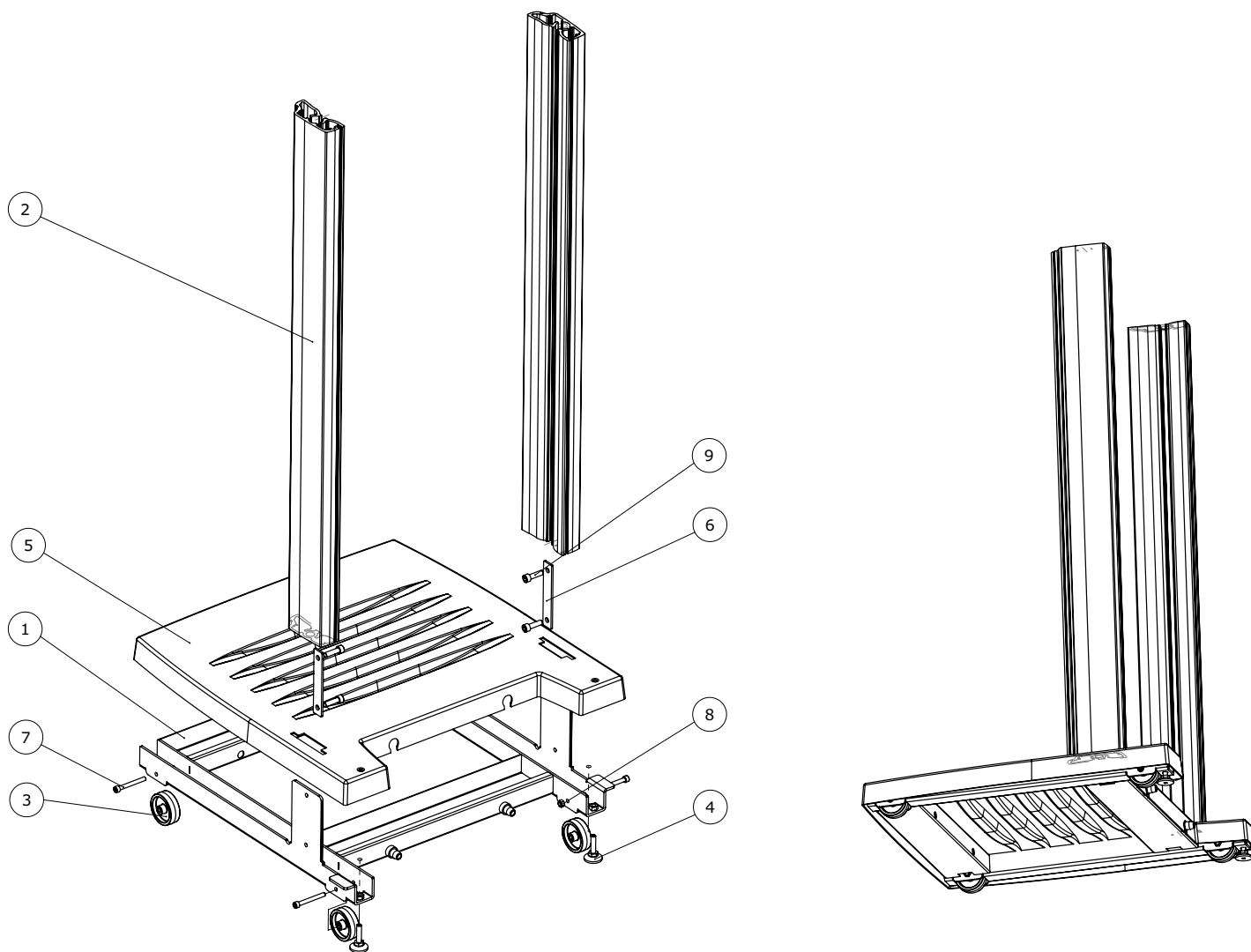
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SPARE PARTS ORDER	69

V44425 COROB™ D300-16/SR



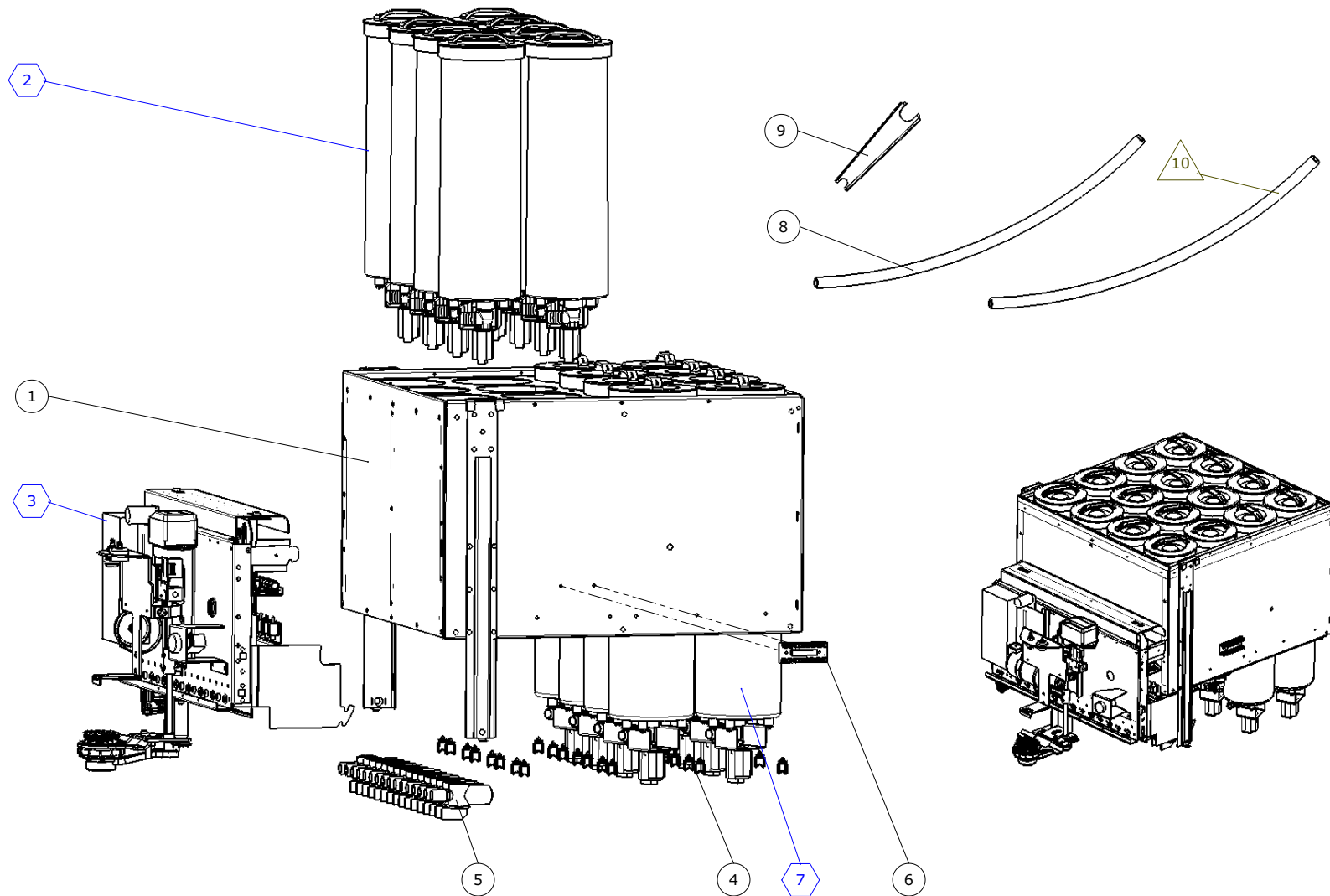
V44425 COROB™ D300-16/SR

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1			JALKA KP	FOOT ASSY	FUSS ZUS.	(4)
2			YLÄRUNKO KP	UPPER FRAME ASSY	OBERRAHMEN ZUS.	N (6)
3	V44640	5	ALALEVY	LOWER PLATE	UNTERE PLATTE	
4	V44453	4	SIVULEVY	SIDE PLATE	SEITENBLECH	R RAL9007
5	V44673	4	KIINNITYSLEVY	ADAPTER PLATE	STELLSCHEIBE	
6			PURKKIPÖYTÄ KP	CAN TABLE ASSY	DOSENTISCH ZUS	(37)
7	V44809	1	TAKALEVY	BACK PANEL	ENDBLECH	
8	V44796	3	KANSI KP	COVER ASSY	ABDECKKAPPE ZUS.	
9	V44725	2	ETULEVY	FRONT PANEL	FRONTABDECKUNG	RAL 7015
10	V45038	0	KEHYS	FRAME	RAHMEN	R
11	V45039	0	KEHYS	FRAME	RAHMEN	L
12	V44841	4	LÄVISTIN KP	PUNCHER ASSY	LOCHSTANZVORRICHTUNG ZUS.	(40)
13	V44749	0	VERKKOLEVY	MAINS CONNECTING PLATE	ANCSHLUSSBLECH FÜR NETZSTEKER	(35)
14	V44920	2	KIINNITIN	FASTENER	KLEMME	
15	V45217	1	SIVULEVY	SIDE PLATE	SEITENBLECH	L RAL9007
16	V45112	3	SÄILIÖ KP	CANISTER ASSY	BEHÄLTERZUS.	
17	V46234	0	ETUKOTELO	FRONT CASING	FRONTBUCHSE	RAL 9007, PUNCHER HOLE
18	V44634	1	KANNAKE KP	SUPPORT ASSY	KONSOLE ZUS.	
19	V45182	2	NÄYTTÖTASO KP	MONITOR STAND ASSY	MONITORSTAND ZUS.	FOR FLAT SCREEN (VESA)
20	V45359	0	HIIRITASO KP	MOUSE TRAY ASSY	MAUSTISCH ZUS.	
21	V45363	0	HYLLY KP	SHELF ASSY	GESTELLZUS.	
23	V45343	0	NÄYTTÖTASO KP valinnaisvaruste	MONITOR STAND ASSY optional	MONITORSTAND ZUS. Option	FOR CRT MONITOR
24	V46614	SR	PEITELEVY	COVER PLATE	ABDECKPLATTE	

V44423 Jalka kp Foot assy Fusszus.

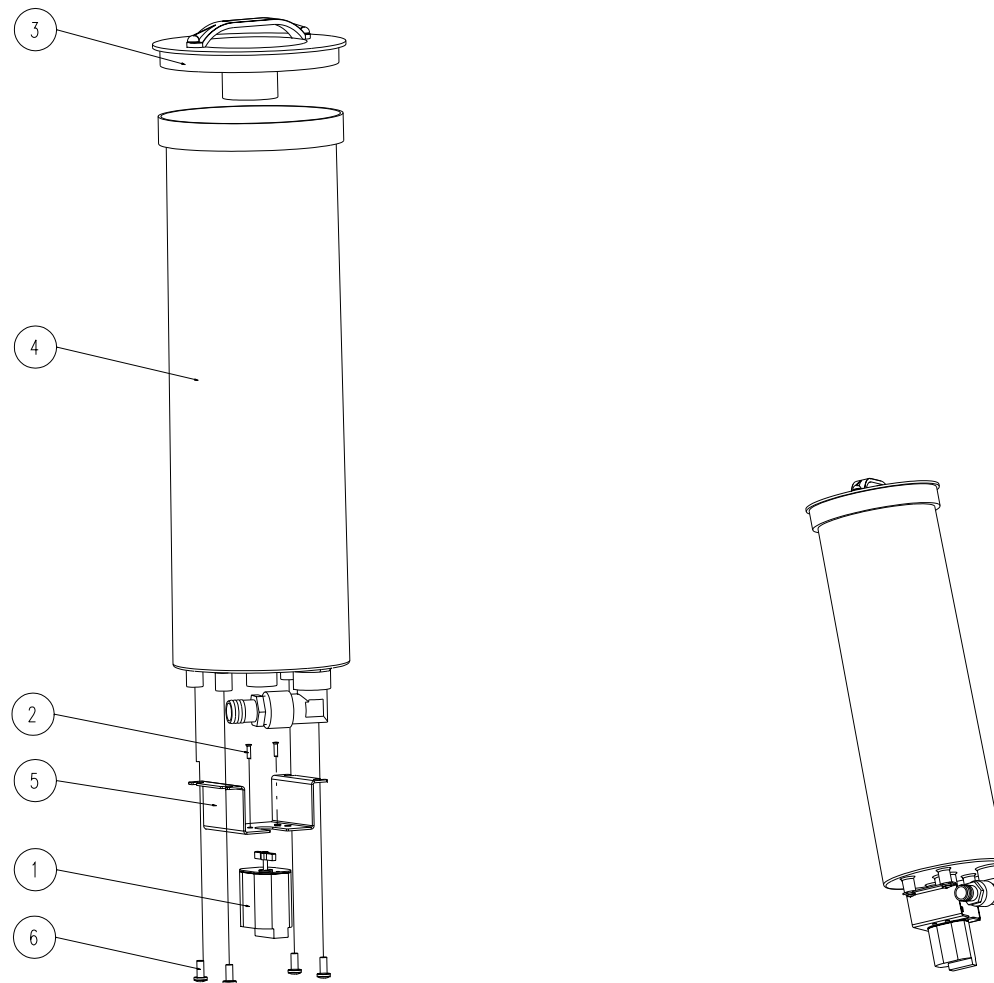
V44423 Jalka kp Foot assy Fusszus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V44944	2	JALKA HKP	FOOT WELD ASSY	FUSS SCHWEISSUNGZUS.	
2	V44424	3	ALUMIINIJOHDE	ALUMINIUM GUIDE	ALUMINIUMFÜHRUNG	
3	V04461	0	TEOLLISUUSPYÖRÄ	INDUSTRIAL WHEEL	INDUSTRIELLRAD	YKI-70 N
4	V45410	0	SÄÄTÖJALKA	SUPPORTING FOOT	TRÄGERFUSS	SF 3817M10 40 I S
5	V44687	3	POHJALEVY	BASE PLATE	BODENPLATTE	
6	V44504	2	TUKILEVY	SUPPORT PLATE	STÜTZPLATTE	
7		0	KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M8 x 70 8.8 Zn DIN 912
8		0	LUKITUSMUTTERI	LOCKING NUT	SICHERUNGSMUTTER	M8 DIN 985
9		0	KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M10 x 35 DIN 912

V44631 Ylärunko kp Upper frame assy Oberrahmenzus.

V44631 Ylärunko kp Upper frame assy Oberrahmenzus.

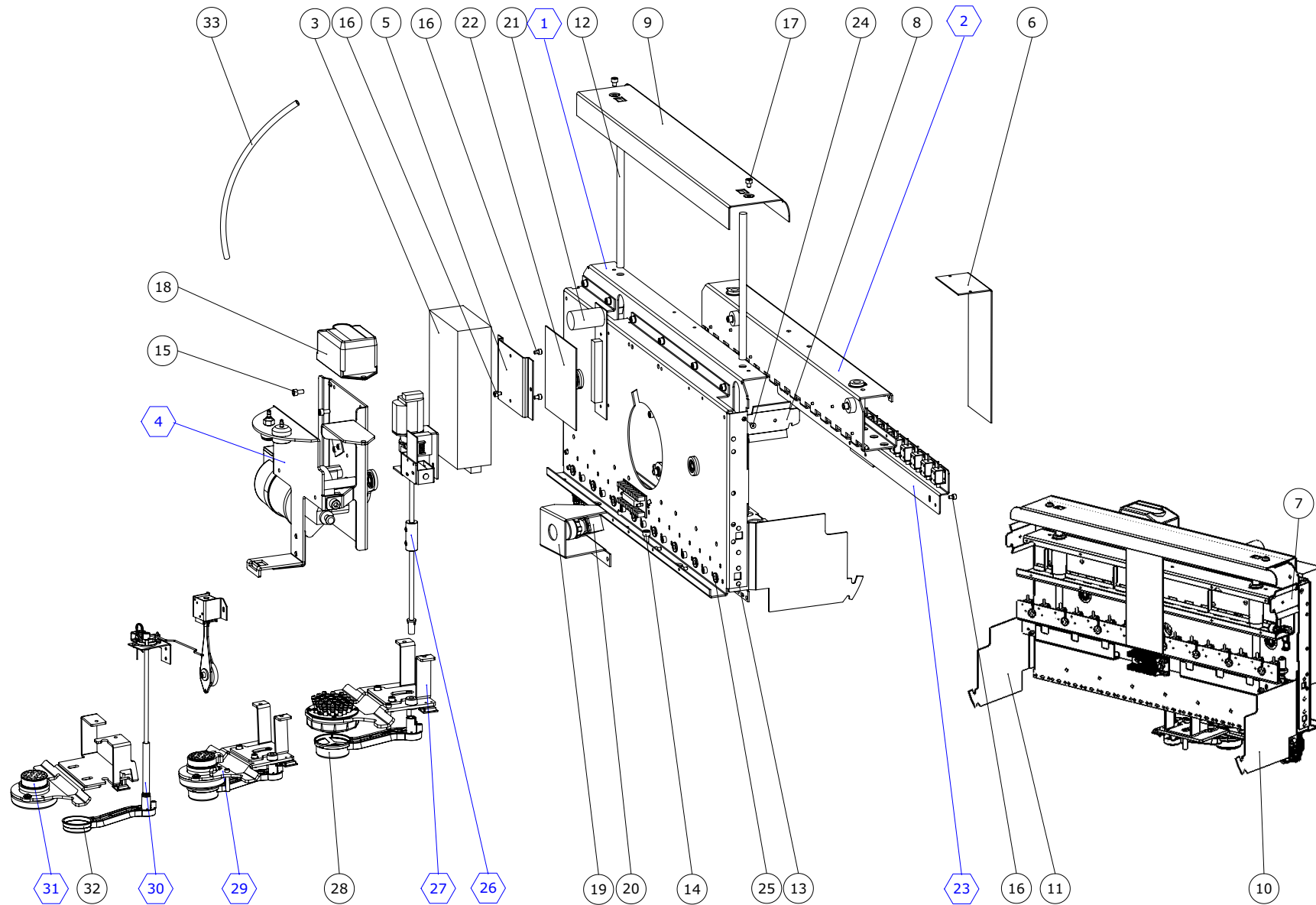
No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1			SÄILIÖTELINE KP	RACK FOR CANISTERS ASSY	BEHÄLTERGESTEL ZUS.	
2	V44992	0	PASTASÄILIÖ KP	COLORANT CANISTER ASSY	PASTENBEHÄLTER ZUS.	4 L POM COMPLETE ASSY (8)
3			ANNOSTELUMODUULI KP	DISPENSING MODULE ASSY	DOSIERMODUL ZUS.	(10)
4	V44935	0	KIINNITIN	FASTENER	KLEMME	WS - A - 2 - 01
5	V45030	0	VENTTIILI	VALVE	VENTIL	
6	V44846	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300C-A.1
7	V45166	0	PASTASÄILIÖ KP	COLORANT CANISTER ASSY	PASTENBEHÄLTER ZUS.	6 L POM COMPLETE ASSY (8)
8	V45434	0	LETKU Säiliö - Pumppu	HOSE Canister - Pump	SCHLAUCH Behälter - Pumpe	16/23 MM (TOPPAIR)
9	V45345	0	ASENNUSTYÖKALU	FITTER'S TOOL	INSTALLATIONSWERKZEUG	FOR JOHN GUEST FITTINGS
10	V46220	SR	LETKU Säiliö - Pumppu	HOSE Canister - Pump	SCHLAUCH Behälter - Pumpe	FEP ID 5/8" x OD 3/4", Ø15,88/ Ø19,05

V44992 & V45166 PASTASÄILIÖ KP COLORANT CANISTER ASSY PASTENBEHÄLTERZUS.

V44992 & V45166 PASTASÄILIÖ KP COLORANT CANISTER ASSY PASTENBEHÄLTERZUS.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45162	0	MOOTTORI	MOTOR	MOTOR	6611001600 BUEHLER
2			URARUUVI	SLOTHEAD SCREW	SCHLITZSCHRAUBE	M2.5 x 10 DIN 965
3	V45222	0	KANSI KP	COVER ASSY	ABDECKKAPPE ZUS.	4L & 6L
4	V45223	1	PASTASÄILIÖ	COLORANT CANISTER	PASTENBEHÄLTER	4 L ASSEMBLY (NOT LID AND MOTOR)
	V45226	1	PASTASÄILIÖ	COLORANT CANISTER	PASTENBEHÄLTER	6 L ASSEMBLY (NOT LID AND MOTOR)
5	V45205	1	KANNAKE	SUPPORT	KONSOLE	
6	V45218	0	PT-RUUVI	PT-SCREW	PT-SCHRAUBE	50 x 12 PZ ZN 1442

V44494 ANNOSTELUMODUULI KP DISPENSING MODULE ASSY DOSIERMODULZUS.



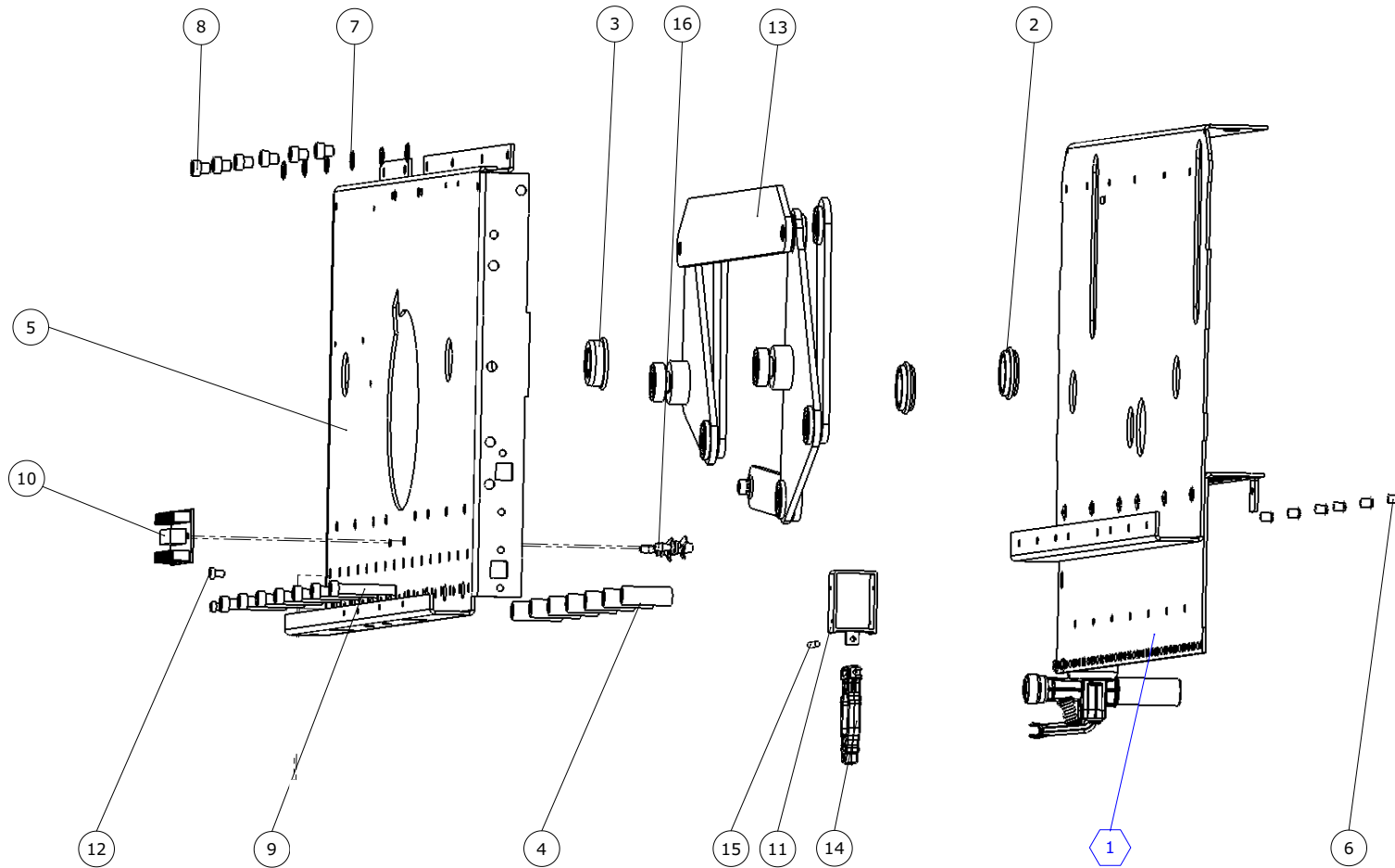
V44494 ANNOSTELUMODUULI KP DISPENSING MODULE ASSY DOSIERMODULZUS.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45020	0	KÄYTTÖLEVY KP	MOTION PLATE ASSY	ABTRIEBBLATT ZUS.	(13)
2	V43649	0	ANNOSTELUNOKKA KP	DISPENSING CAM ASSY	KOLBENHEBER ZUS.	(17)
3	V43803	0	VIRTALÄHDE	POWER SUPPLY	STROMVERSORGUNG	MEAN WELL SP-200-24
4	V44517	3	ANNOSTELUMOOTTORI KP	DISPENSING MOTOR ASSY	DOSIERMOTOR ZUS.	(19)
5	V43797	1	PIDIN	HOLDER	HALTER	
6	V43798	1	KAAPELIKOURU	CABLE TRAY	ENERGIEKETTENTRÄGER	
7	V43800	1	HAKA	CATCH	SPERRKLINKE	
8	V43804	1	HAKA	CATCH	SPERRKLINKE	
9	V43788	1	KANSI	COVER	DECKEL	
10	V44632	2	SARANA	HINGE	GELENK	
11	V45941	0	SARANA	HINGE	GELENK	R
12	V43792	1	JOHDE	BEAM	FÜHRUNG	
13			NIITTI	RIVET	NIETE	Ø4 x 8 STEEL
14			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M6 x 12 DIN 912
15			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 10 DIN 912
16			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 6 DIN 912
17			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 6 DIN 912
18	V43890	0	ILMAPUMPPU	AIR PUMP	LUFTPUMPE	ELITE 799
19			KÄYTTÖPANEELI	OPERATING PANEL	BEDIENUNGSTAFEL	
20			VALOKEHYS-PAINIKE	LIGHT BUTTON	DRUCKKNOPF MIT LICHT	SCHNEIDER ZB5 - A
	V45099	1	PYSÄYTYSKYTKIN KP (Käyttöpaneeli + valokehys- painike + kaapeli)	STOP BUTTON ASSY (Operating panel + light button + cable)	HALTEKNOPFZUS. (Bedienungstafel + Druckknopf mit licht + Kabel)	
21	V44752	0	LIITINKORTTI	CONNECTOR BOARD	SCHNITTSTELLENKARTE	D300CON-A.1
22	V43786	0	PROSESSORIKORTTI	PROCESSOR BOARD	PROZESSORKARTE	
23	V44249	0	SOLENOIDIKISKO KP	SOLENOID RAIL ASSY	SOLENOIDSCHIENEZUS.	(23)
24			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 8 DIN 7991 10.9

V44494 ANNOSTELUMODUULI KP DISPENSING MODULE ASSY DOSIERMODULZUS.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
25	V43830	0	LÄPIVIENTI	LEAD-IN	EINGANG	RICHCO QFG-16210 (13.5/ 10x2)
26	V46377	1	SUUTTIMENSULKIJA KP	NOZZLE CLOSER ASSY	DÜSENSCHLIESSER ZUS.	WITH MOTOR (25)
27	V46287	2	SUUTIN KP	NOZZLE ASSY	DÜSE ZUS.	FOR 16 AND 24 COLORANTS (27)
28	V46635	0	TIPPAKUPPI KP	DROP CATCHER ASSY	TROPFENFÄNGERZUS.	
29	V46359	1	SUUTIN KP	NOZZLE ASSY	DÜSE ZUS.	(29)
30	V43739	2	SUUTTIMENSULKIJA KP	NOZZLE CLOSER ASSY	DÜSENSCHLIESSER ZUS.	OLD VERSION (31)
31	V44965	1	SUUTIN KP	NOZZLE ASSY	DÜSE ZUS.	OLD VERSION (33)
32	V44871	2	TIPPAKUPPI	DROP CATCHER	TROPFENFÄNGER	
33	V04006	0	KOSTUTUSLETKU veisäiliöltä suuttimille	HUMIDIFYING HOSE from reservoir to nozzles	BEFEUCHTUNUNGSSCHLAUCH von Reservoir zu Düsen	PVC 4/7MM

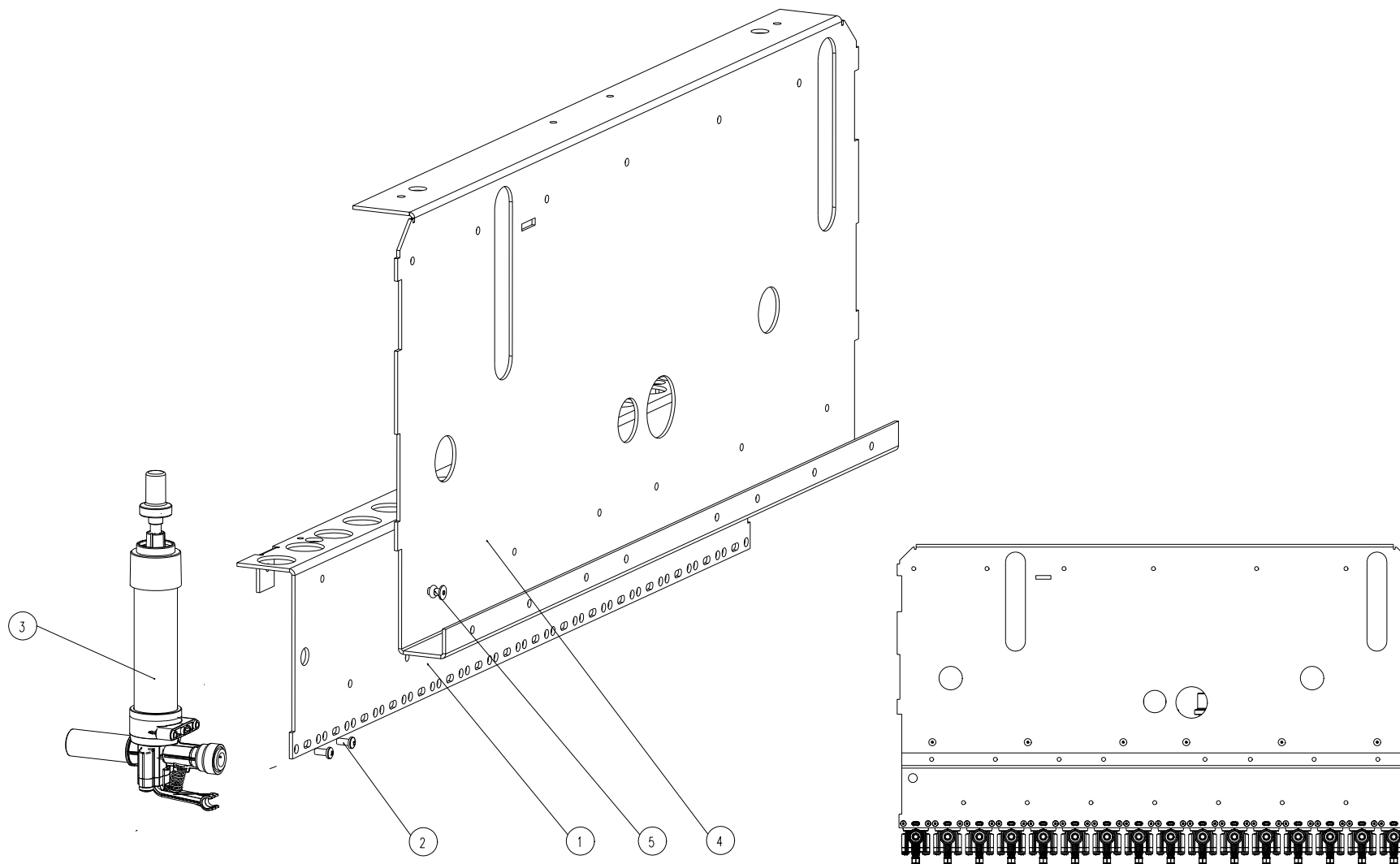
V45020 Käyttölevy kp Motion plate assy Abtriebblattzus.



V45020 Käyttölevy kp Motion plate assy Abtriebblattzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1			PUMPPULOHKO KP	PUMP BLOCK ASSY	PUMPEBLOCK ZUS.	VITON WITH BLACK LEVERS (15)
2	V43677	0	LAAKERIPESÄ	BEARING HOUSING	LAGERGEHÄUSE	
3	V43675	0	LAAKERIPESÄ	BEARING HOUSING	LAGERGEHÄUSE	
4	V44502	0	KOROTUSHOLKKI	SPACER	ERHÖHUNGSBUCHSE	6.2 x 30
5	V43686	7	ETULEVY	FRONT PANEL	FRONTABDECKUNG	
6			NIITTI	RIVET	NIETE	Ø4 x 8 STEEL
7			ALUSLEVY	WASHER	UNTERLAGSSCHEIBE	M5 DIN 125
8			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 6 DIN 912
9			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 35 DIN 912
10	V44845	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300A-A.1
11	V43771	4	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
12			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M3 x 6 DIN 912
13	V43967	1	KÄYTTÖVIPU KP	ACTUATOR ASSY	ABTRIEBHEBEL ZUS.	
14	V44657	0	VETOTANKO	DRAFT BAR	ANGRIFFSTANGE	
15	V43712	0	LIERIÖSOKKA	CYLINDRIC PIN	ZYLINDERSTIFT	Ø3; L=30; DIN 7 A2
16	V41814	0	KORTTIKIINNIKE	BOARD BRACKET	KARTEBEFESTIGUNG	RICHCO LCBS 401 /

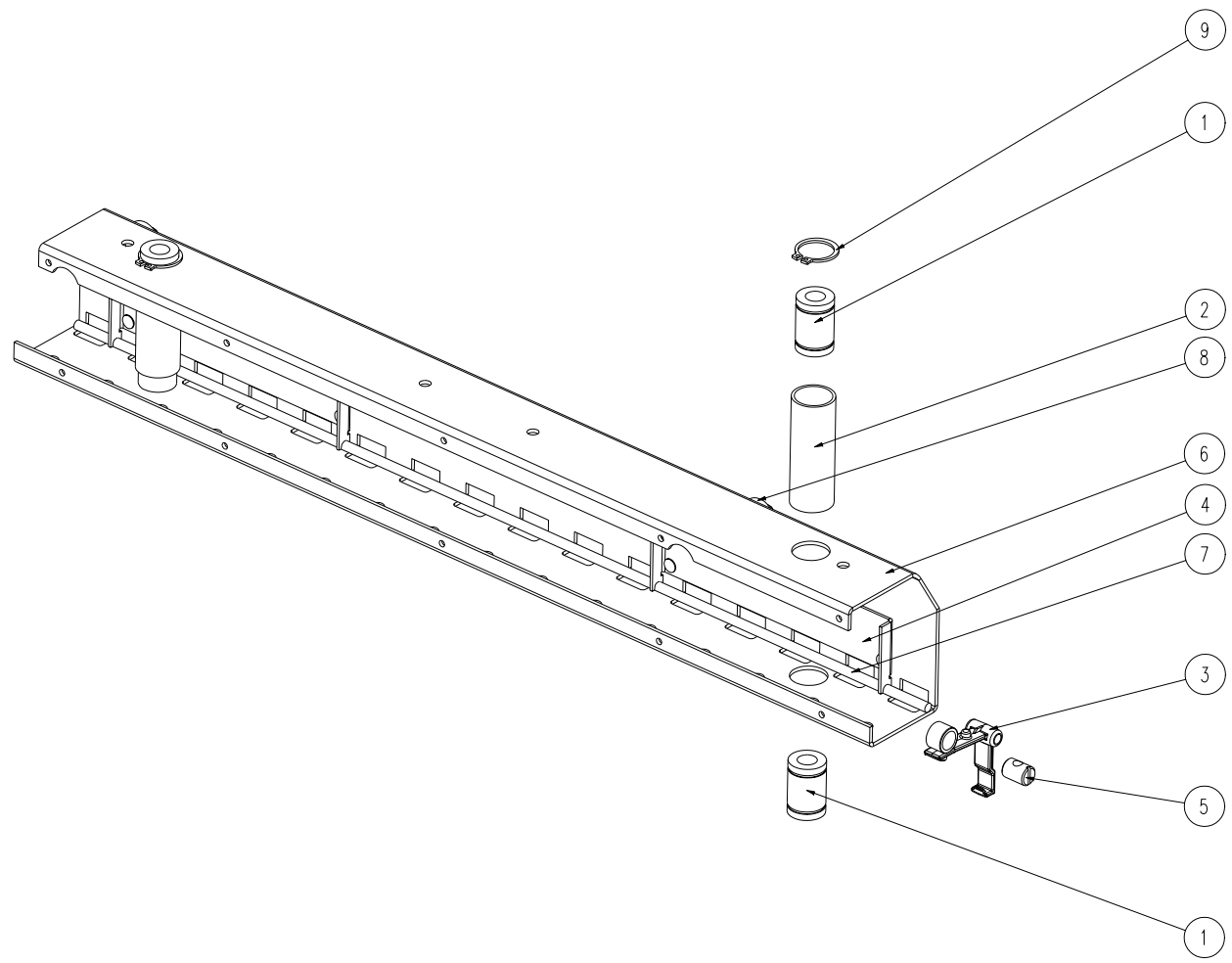
V46410 Pumppulohko kp Pump block assy Pumpenblockzus.



V46410 Pumppulohko kp Pump block assy Pumpenblockzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45012	1	KIINNITYSLEVY	ADAPTER PLATE	STELLSCHEIBE	
2	V45028	0	PT-RUUVI	PT-SCREW	PT-SCHRAUBE	1442 ZN PZ 3,5 x 8
3	V45563	0	ANNOSTELUPUMPPU KP	DISPENSING PUMP ASSY	DOSIERPUMPE ZUS.	VITON WITH BLACK LEVER
	V46219	SR	ANNOSTELUPUMPPU KP	DISPENSING PUMP ASSY	DOSIERPUMPE ZUS.	FFKM WITH YELLOW LEVER
4	V43711	4	TAKALEVY	BACK PANEL	ENDBLECH	
5			VETONIITTI	RIVET	NIET	Ø4 x 8

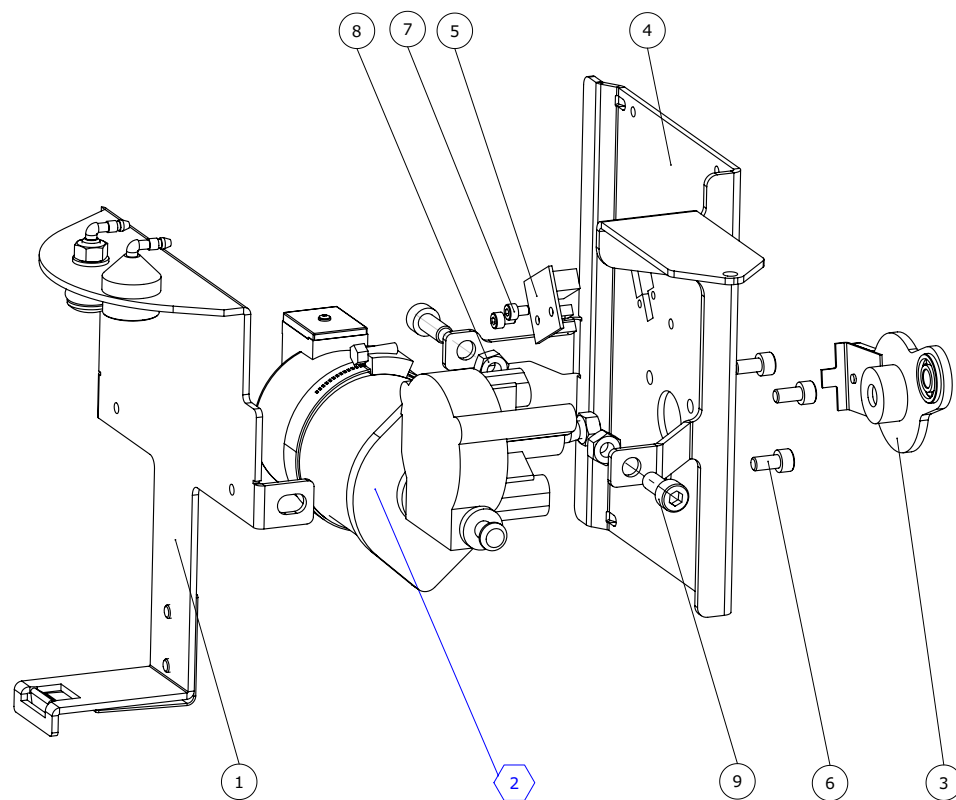
V43649 Annostelunokka kp Dispensing cam assy Kolbenheberzus.



V43649 Annostelunokka kp Dispensing cam assy Kolbenheberzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V43631	0	KUULAHOLKKI	LINEAR BALL BEARING	KUGELLAGERHÜLSE	LM 10 UU
2	V43634	0	HOLKKI	SLEEVE	HÜLSE	
3	V43635	1	NOSTIN	LIFTER	HEBER	
4	V43638	0	KIINNIKE	BRACKET	BEFESTIGUNG	
5			MUTTERI	NUT	MUTTER	M6x10x1 WÜRTH 9276 610 14
6	V43639	2	ANNOSTELUPALKKI	BAR	BALKEN	
7	V43632	0	AKSELI	SHAFT	ACHSE	
8	V43651	0	VETOHOLKKI	WITHDRAWAL SLEEVE	ABZIEHHÜLSE	
9			VARMISTINRENGAS	RETAINING RING	SICHERUNGSRING	19 x 1.2 DIN 471
10			NIITTI	RIVET	NIETE	Ø3.2 x 8 STEEL

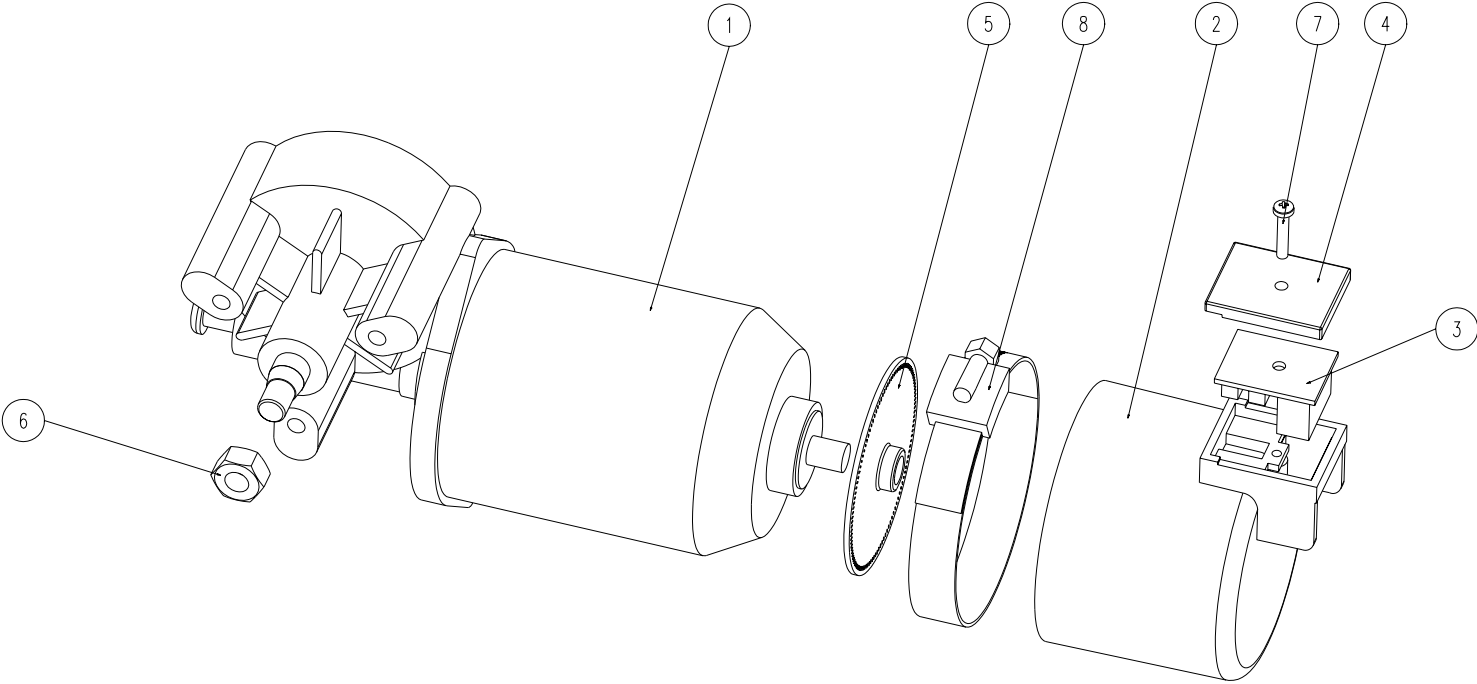
V44517 Annostelumoottori kp Dispensing motor assy Dosiermotorzus.



V44517 Annostelumoottori kp Dispensing motor assy Dosiermotorzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45794	0	PULLOTELINE KP	RACK ASSY FOR RESERVOIR	RESERVOIRGESTELLZUS.	
2	V43759	0	MOOTTORI KP	MOTOR ASSY	MOTOR ZUS.	(21)
3	V43760	0	KÄYTTÖVIPU KP	ACTUATOR ASSY	ABTRIEBHEBEL ZUS.	
4	V44520	3	MOOTTORIPETI	MOTOR BEDSTEAD	MOTORBETT	
5	V43773	0	NOLLA-ANTURI	ZERO SENSOR	NULLSENSOR	ZERO
6			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M6 x 12 DIN 912
7			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 6 DIN 912
8			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M8 DIN 934
9			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M8 x 20 DIN 912 8.8

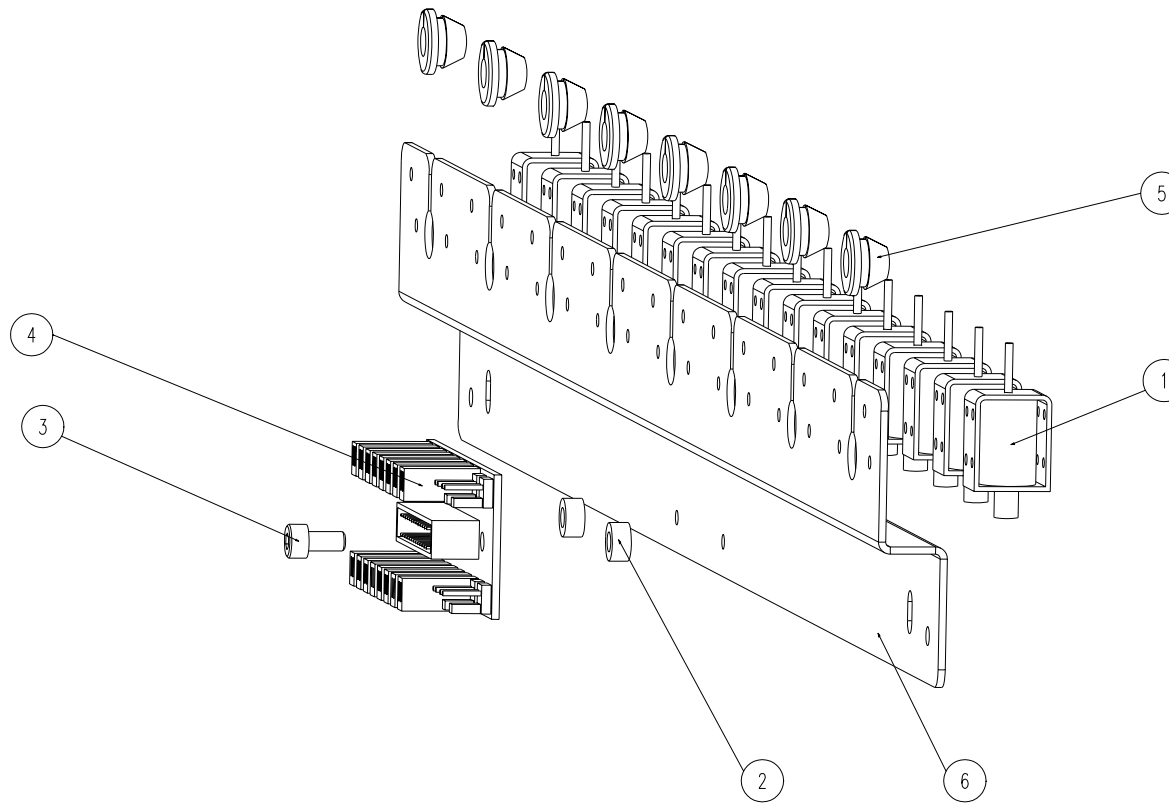
V43759 Moottori kp Motor assy Motorzus.



V43759 Moottori kp Motor assy Motorzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V43770	0	MOOTTORI	MOTOR	MOTOR	COROB PART NO: 1M2-614-01
2	V43766	0	KOTELO	CASING	BUCHSE	
3	V43769	0	PULSSIANTURI	PULSE SENSOR	PULSENSOR	PULS
4	V43765	0	KANSI	COVER	DECKEL	
5	V43764	0	PULSIKIEKKO	IMPULSE WHEEL	IMPULSSCHEIBE	
6			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M8 DIN 934
7			PT-RUUVI	PT-SCREW	PT-SCHRAUBE	1442 ZN PZ ZN 3 x 14 WE0165314081
8	V04641	0	KIRISTIN	CLAMP	VERSCHLUSS	ABA 58-75

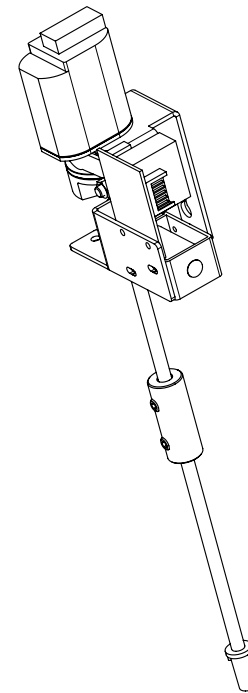
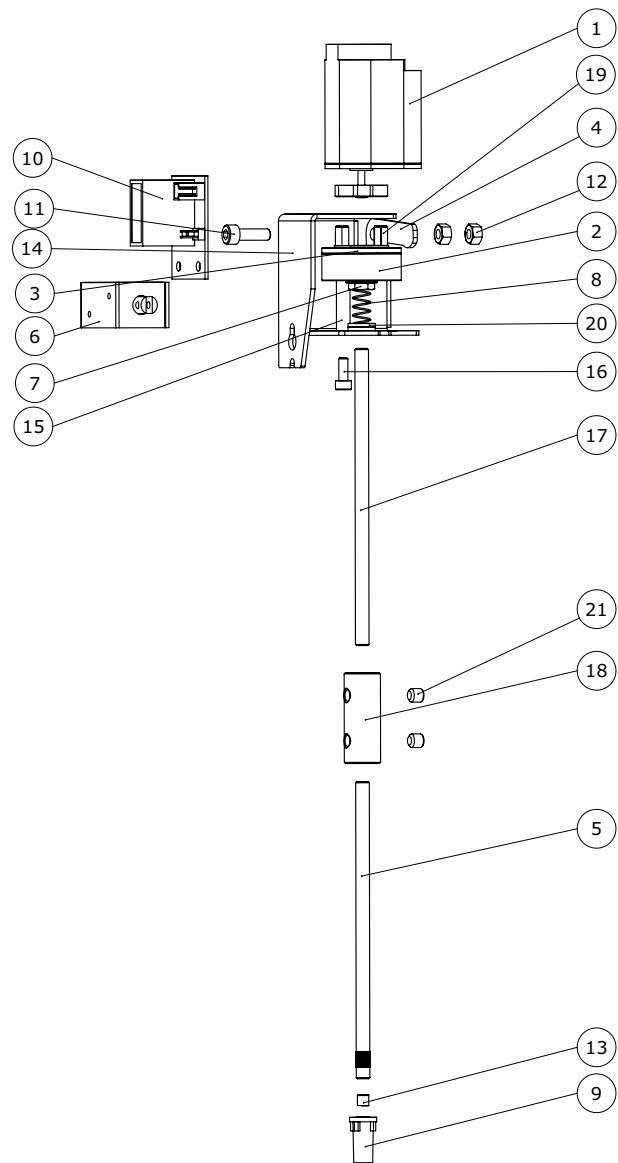
V44249 Solenoidikisko kp Solenoid rail assy Solenoidschienezus.



V44249 Solenoidikisko kp Solenoid rail assy Solenoidschienezus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V43561	2	SOLENOIDI	SOLENOID	SOLENOID	141-05B22XX SMO-0520S06AU
2	V43757	0	RULLA	ROLLER	ROLLE	SKIFFY 005 4205 000 02
3			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 8 DIN 912
4	V44844	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300B-A.1
5	V43830	0	LÄPIVIENTI	LEAD-IN	EINGANG	RICHCO QFG-16210 (13.5/10x2)
6	V44836	0	KIINNITYSLEVY	ADAPTER PLATE	STELLSCHEIBE	

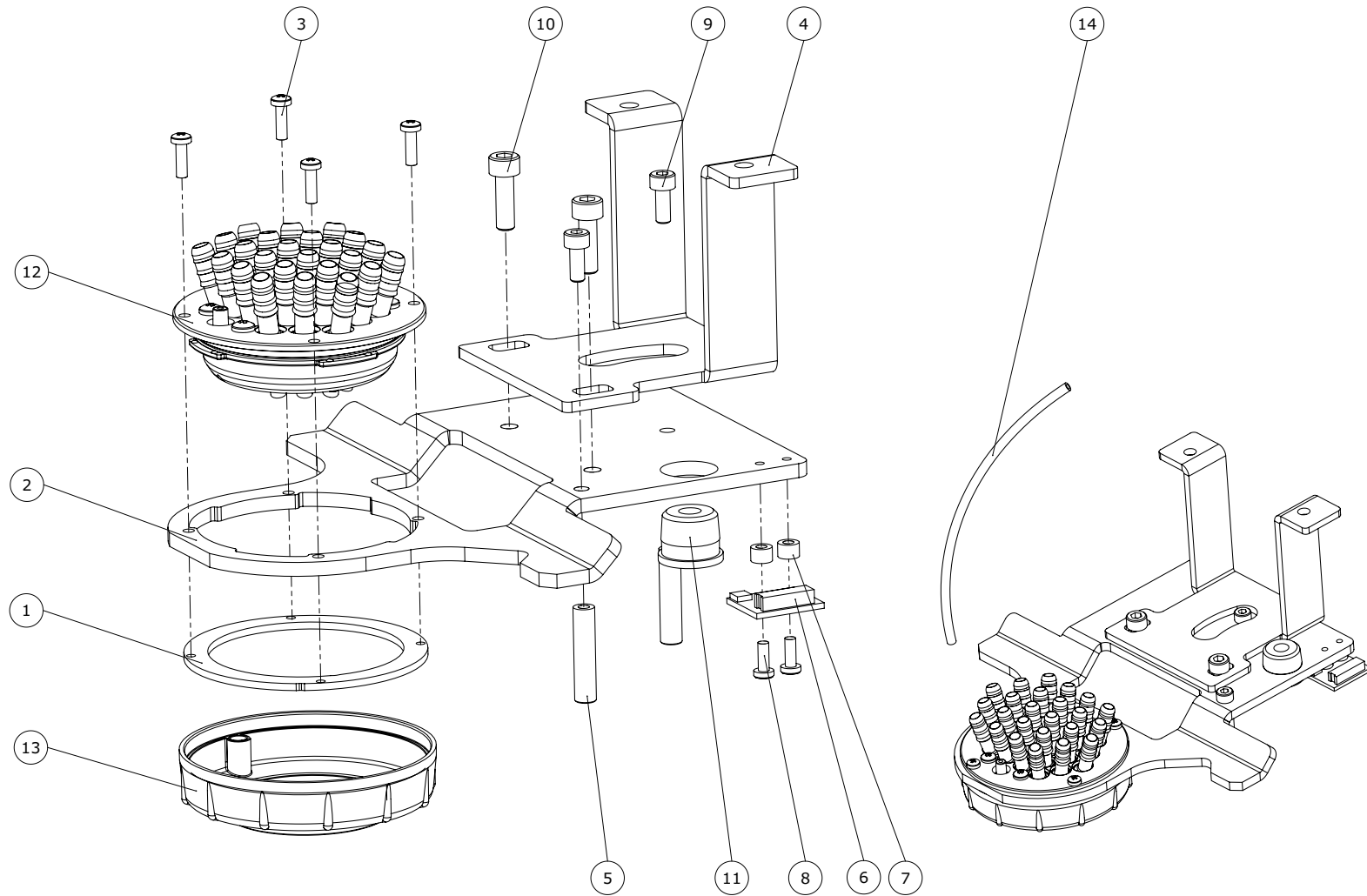
V46377 Suuttimensulkija kp Nozzle closer assy Düsenchliesserzus.



V46377 Suuttimensulkija kp Nozzle closer assy Düsenschliesserzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45162	0	MOOTTORI	MOTOR	MOTOR	6611001600 BUEHLER
2	V45648	2	LAIPPA	FLANGE	FLANSCH	
3	V45778	3	VÄÄNTIÖ	CRANK	MITNEHMER	S
4	V45657	1	VIPULEVY	LEVER PLATE	HEBEL PLATTE	
5	V46358	0	AKSELI	SHAFT	ACHSE	
6	V43771	4	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
7			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M6 DIN 936
8	V45943	0	PURISTUSJOUSI	BREAK SPRING	DRUCKFEDER	SF-TF 0.6x7x25 1279-SS1774-04
9	V43743	0	HOLKKI	SLEEVE	HÜLSE	
10	V45707	0	OHJAINKORTTI	CONTROL BOARD	STEUERKREISKARTE	D300CNTL-A.1
11			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 16 DIN 912
12			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M5 DIN 934
13	V43650	0	MAGNEETTI	MAGNET	MAGNET	Ø5X5
14	V46256	1	KANNATIN	SUPPORT	TRÄGER	
15	V45702	1	TAPPI	PIN	ZAPFEN	
16			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 10 DIN 912
17	V46360	0	AKSELI	SHAFT	ACHSE	
18	V46311	0	SÄÄTÖRENGAS	ADJUSMENT RING	HALTERING	
19			JOUSISOKKA	EXPANSION PIN	SPANNSTIFT	Ø3 x 12 DIN 1481
20			ALUSLEVY	WASHER	UNTERLAGSSCHEIBE	M6 DIN 125
21			KUUSIOKOLOPIDÄTINRUUVI	ALLEN SET SCREW	FESTSTELLSCHRAUBE	M6 x 6 DIN 913

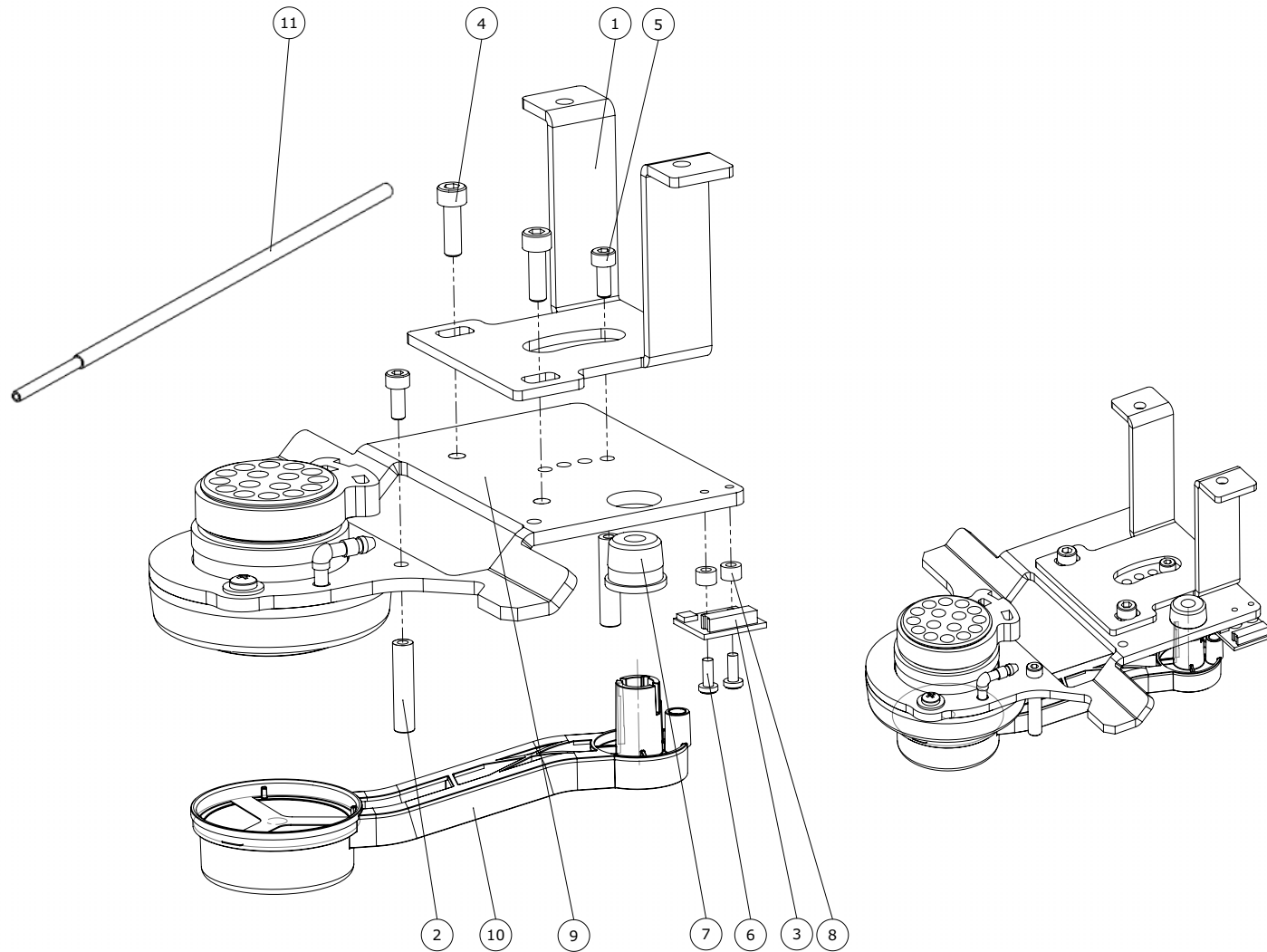
V46287 Suutin kp Nozzle assy Düzezus.



V46287 Suutin kp Nozzle assy Düsezus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V46303	1	ADAPTERI	ADAPTOR	ADAPTER	
2	V46318	1	PIDIN	HOLDER	HALTER	
3			URARUUVI	SLOTHEAD SCREW	SCHLITZSCHRAUBE	M3 x 10 DIN 7985
4	V45704	3	KIINNITYSRAUTA	FIXTURE	HALTEBÜBGEL	
5	V45702	1	TAPPI	PIN	ZAPFEN	
6	V43676	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	CUP
7	V46260	0	KOROKEHOLKKI	SPACER	ERHÖHUNGSBUCHSE	Ø6 / Ø3.1 x 4
8			URARUUVI	SLOTHEAD SCREW	SCHLITZSCHRAUBE	M3 x 8 DIN 7985
9			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 10 DIN 912
10			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 16 DIN 912
11	V46255	1	HOLKKI	SLEEVE	HÜLSE	
12	V46665	0	SUUTINRYHMÄ KP	NOZZLE GROUP ASSY	DÜSEGRUPPEZUS.	24 NOZZLES
13	V46673	0	SUULAKE	NOZZLE	DÜSE	WITH MAGNETS
14	V46706	0	LETKU	HOSE	SCHLAUCH	PA11 F15 8/6 L=450MM

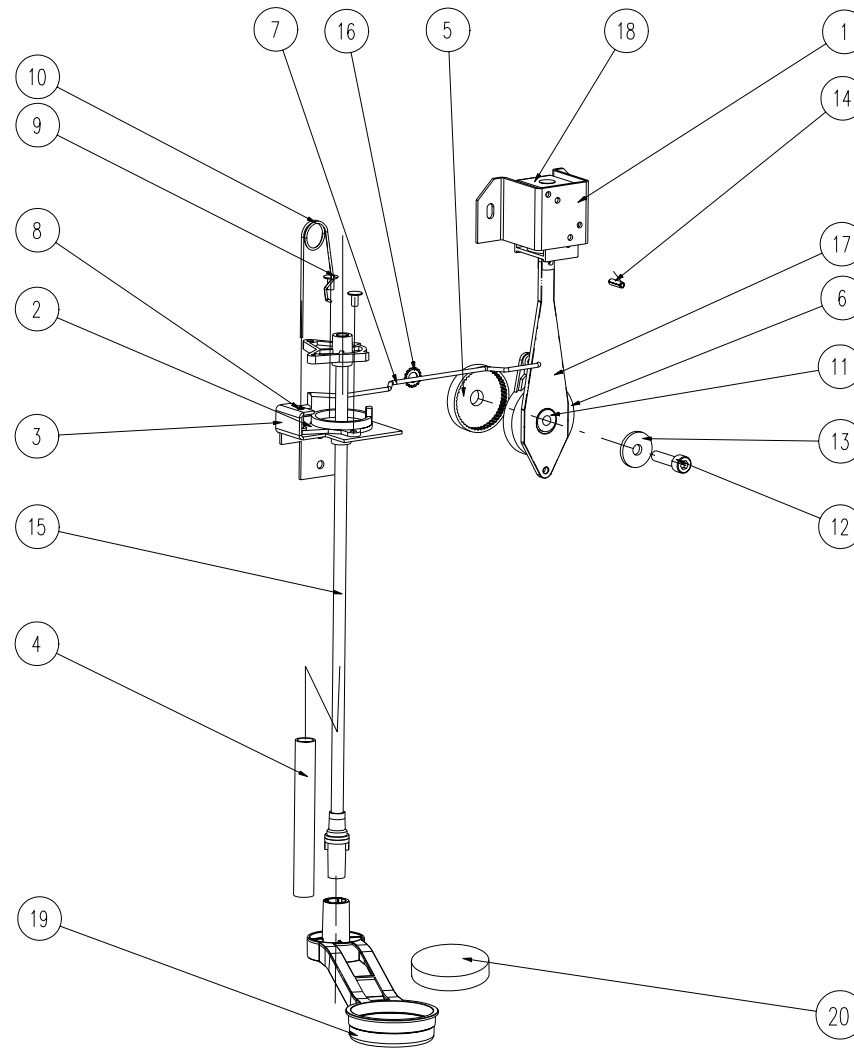
V46359 Suutin kp Nozzle assy Düzezus.



V46359 Suutin kp Nozzle assy Düsezus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45704	3	KIINNITYSRAUTA	FIXTURE	HALTEBÜBGEL	
2	V45702	1	TAPPI	PIN	ZAPFEN	
3	V43676	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	CUP
4			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 16 DIN 912
5			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 10 DIN 912
6			URARUUVI	SLOTHEAD SCREW	SCHLITZSCHRAUBE	M3 x 8 DIN 7985
7	V46255	1	HOLKKI	SLEEVE	HÜLSE	
8	V46260	0	KOROKEHOLKKI	SPACER	ERHÖHUNGSBUCHSE	Ø6 / Ø3.1 x 4
9	V46361	0	SUUTIN KP	NOZZLE ASSY	DÜSE ZUS.	VÄL
10	V46635	0	TIPPAKUPPI KP	DROP CATCHER ASSY	TROPFENFÄNGERZUS.	
11	V45475	0	LETKU KP	HOSE ASSY	SCHLAUCH ZUS.	D8/6 / D6/4 L= 450MM

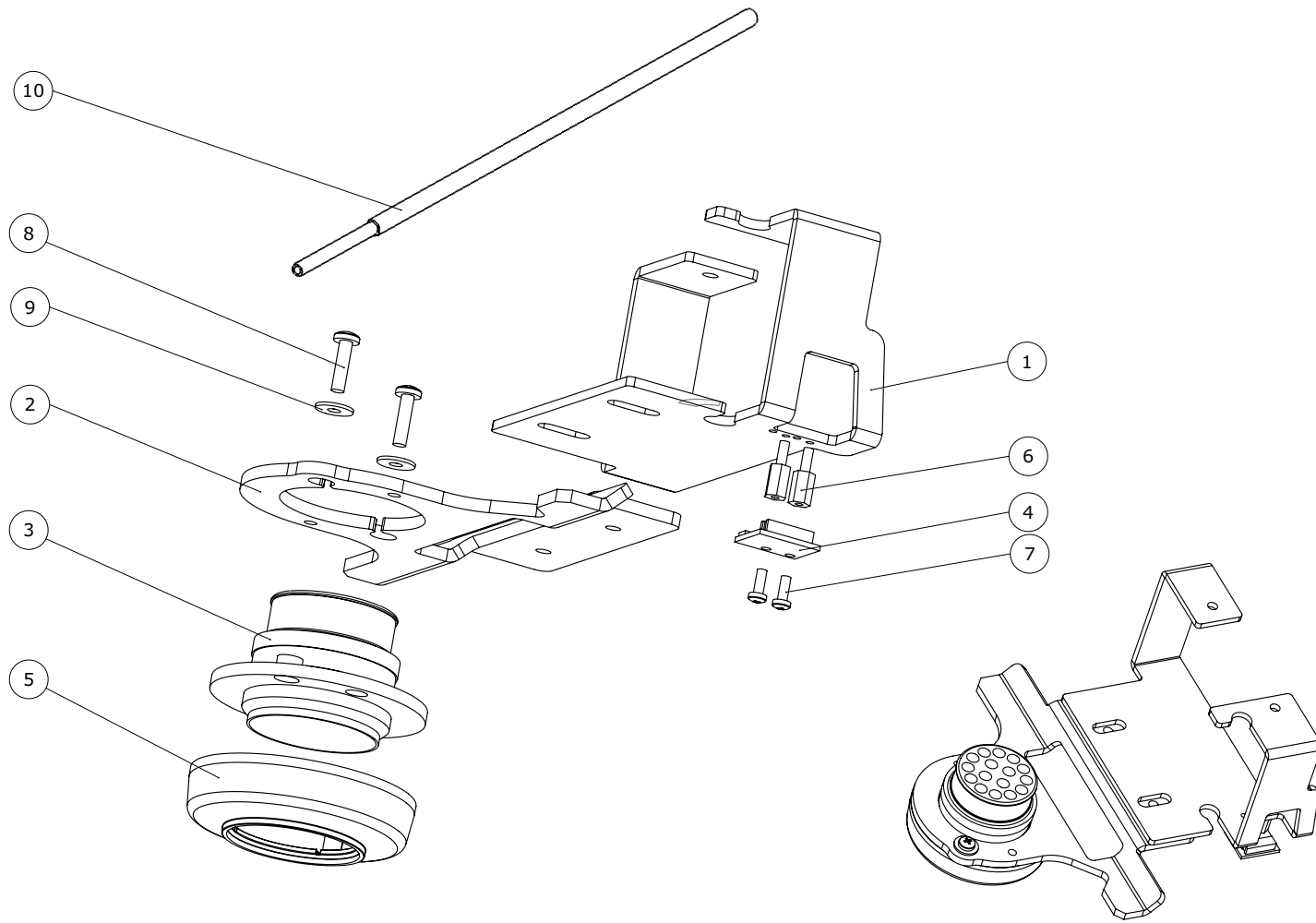
V43739 Suuttimensulkija kp Nozzle closer assy Düsenverschlusszus.



V43739 Suuttimensulkija kp Nozzle closer assy Düsenschliesserzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V43741	0	PIDIN	HOLDER	HALTER	
2	V43746	0	LAAKERI	BEARING	LAGER	
3	V43750	1	KANNAKE	SUPPORT	KONSOLE	
4	V43752	0	HOLKKI	SLEEVE	HÜLSE	
5	V43747	1	HAMMASPYÖRÄ	GEARWHEEL	ZAHNRAD	
6	V43748	1	KYTKINKAMPI	COUPLING CRANK	KUPPLUNGSDREHER	
7	V43753	0	SIIRTOTANKO	STRIKING ROD	TRANSFERSTANGE	
8			NIITTI	RIVET	NIETE	3X0,3X15 Ms
9			NIITTI	RIVET	NIETE	Ø3.2 x 8 STEEL
10	V43755	0	JOUSI	SPRING	FEDER	
11	V43754	0	KESKIOSA	MIDDLE PART	MITTELTEIL	
12			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 20 DIN 912
13			ALUSLEVY	WASHER	UNTERLAGSSCHEIBE	M5 DIN 440 ZN
14			JOUSISOKKA	EXPANSION PIN	SPANNSTIFT	Ø3 x 10 DIN 1481
15	V44156	0	AKSELI KP	SHAFT ASSY	ACHSE ZUS.	
16			ALUSLEVY	WASHER	UNTERLAGSSCHEIBE	M5 DIN 6798 A
17	V44191	0	KYTKINKAMPI	COUPLING CRANK	KUPPLUNGSDREHER	2
18	V43771	4	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
19	V44871	2	TIPPAKUPPI	DROP CATCHER	TROPFENFÄNGER	
20	V44952	0	KOSTUTUSSIENI	MOISTENING SPONGE	BEFEUCHTUNGSSCHWAMM	D40 x 8 POLYESTERI PPI30

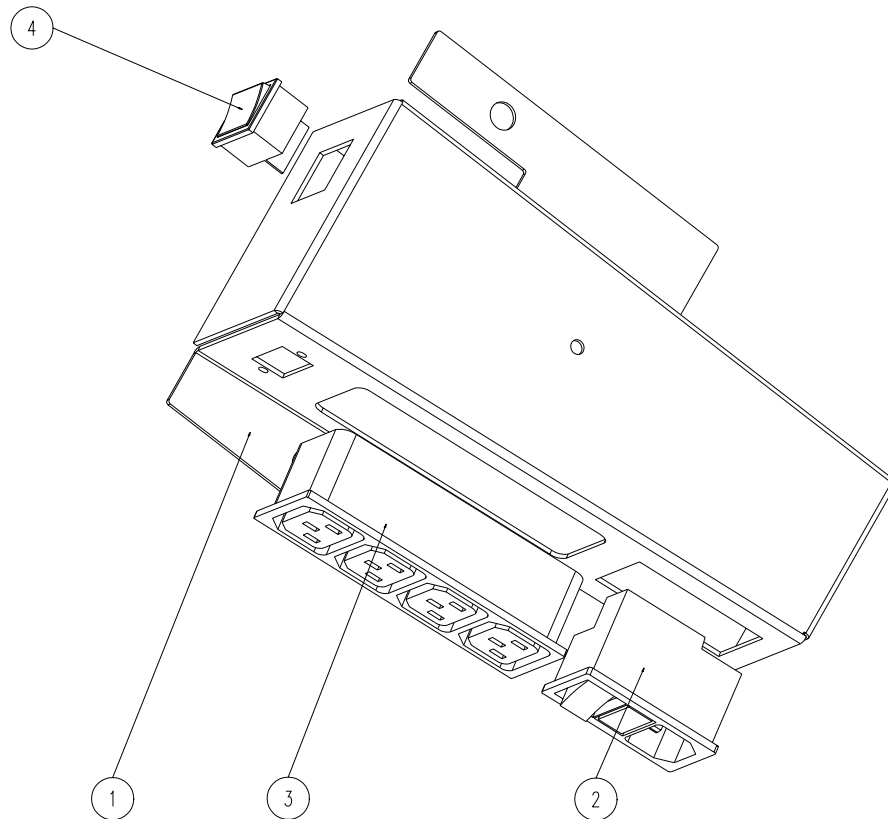
V44965 Suutin kp Nozzle assy Düsezus.



V44965 Suutin kp Nozzle assy Düsezus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V44808	2	KIINNITYSRAUTA	FIXTURE	HALTEBÜBGEL	
2	V44880	2	PIDIN	HOLDER	HALTER	
3	V44479	0	SUUTIN KP	NOZZLE ASSY	DÜSE ZUS.	
4	V43676	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	CUP
5	V44886	2	SUULAKE	NOZZLE	DÜSE	
6	V43674	0	KOROTUSRUVI	SPACER STUD	STEBBOLZEN	M3x10 971100365
7			URARUVI	SLOTHEAD SCREW	SCHLITZSCHRAUBE	M3 x 8 DIN 7985
8	V41051	1	PT-RUVI	PT-SCREW	PT-SCHRAUBE	40 x 16 KA-1412
9			ALUSLEVY	WASHER	UNTERLAGSSCHEIBE	M4 DIN 9021
10	V45475	0	LETKU KP	HOSE ASSY	SCHLAUCH ZUS.	D8/6 / D6/4 L= 450MM

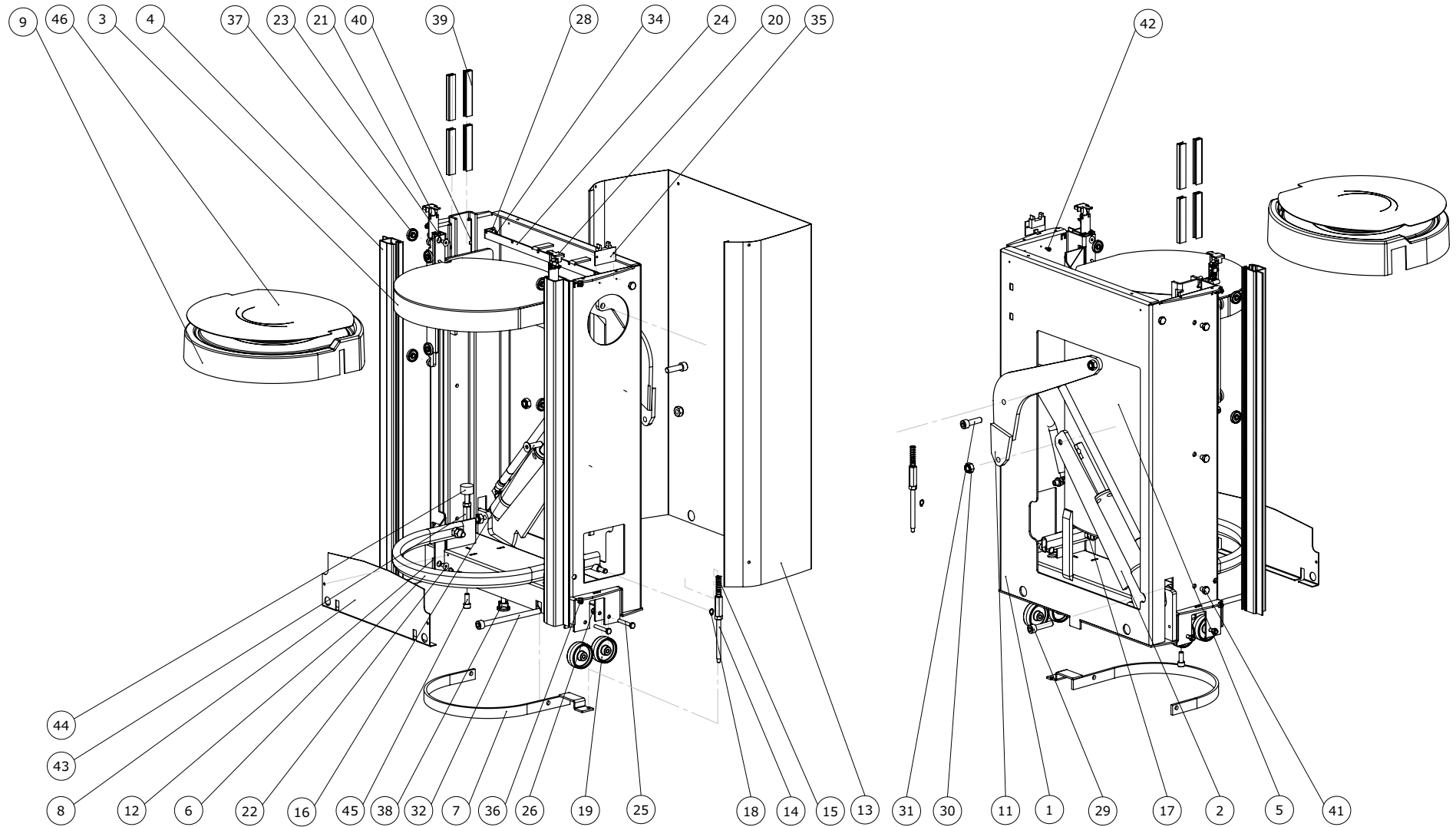
V44749 Verkkolevy Mains connecting plate Anschlussblech für Netzstecker



V44749 Verkkolevy Mains connecting plate Anschlussblech für Netzstecker

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V44672	5	VERKKOLEVY	MAINS CONNECTING PLATE	ANCSHLUSSBLECH FÜR NETZSTEKER	
2	V44748	0	KYTKIMELLINEN PISTOKE	POWER ENTRY MODULE	STECKER MIT SCHALTER	SCHURTER
3	V41201	0	PISTORASIA	WALL SOCKET	STECKDOSE	1,5 MM
4	V43933	1	KYTKIN (SÄHK)	SWITCH	SCHALTER	ARCOLECTRIC C1350VQ0/1BLK

V44719 Purkkipöytä kp Can table assy Dosentisch zus.

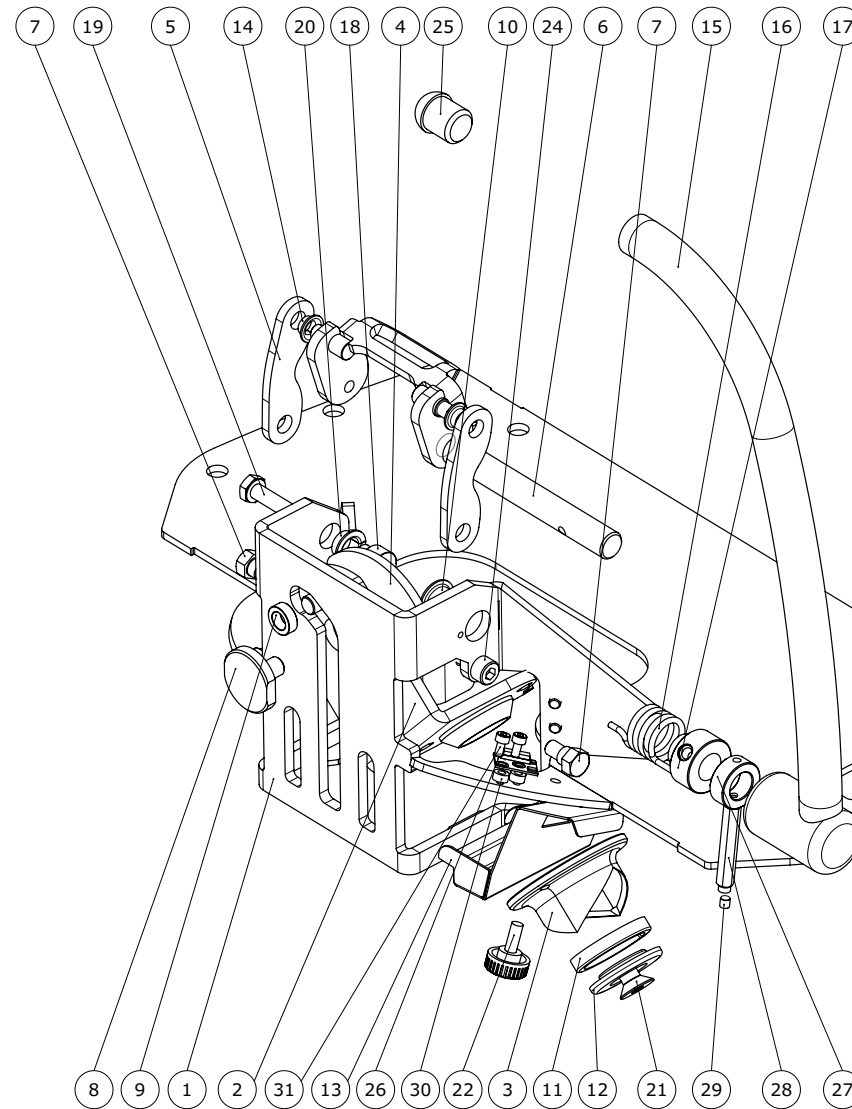


V44719 Purkkipöytä kp Can table assy Dosentisch zus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V44722	4	RUNKO HKP	FRAME WELD ASSY	RAHMEN SCHWEISSUNGZUS.	
2	V44377	3	NOSTOVIPU	CRAB BAR	ABHEBER	
3	V44384	2	PURKKIPÖYTÄ HKP	CAN TABLE WELD ASSY	DOSENTISCH SCHWEISSUNGZUS.	
4	V44959	1	JOHDE	BEAM	FÜHRUNG	L = 691
5	V40368	1	TAKAKAARI	TAIL RIB	HINTERBOGEN	
6	V44451	2	POLJIN HKP	PEDAL WELD ASSY	PEDAL SCHWEISSUNGZUS.	
7	V44452	2	POLJIN HKP	PEDAL WELD ASSY	PEDAL SCHWEISSUNGZUS.	
8	V44983	1	SOKKELI	PLINTH	FUNDAMENTPLATTE	
9	V45128	0	KANSI	COVER	DECKEL	
10	V45142	1	NOSTOYKSIKKÖ sis. koneikon, letkun ja sylinterin	LIFT SECTION incl. power unit, hose and cylinder	HEBUNGEINHEIT enthält Aggregat, Schlauch und Zylinder	
11	V44592	2	VIPU HKP	LEVER WELD ASSY	HEBEL SCHWEISSUNGZUS.	
12	V40356	0	KIINNITYSLEVY	ADAPTER PLATE	STELLSCHEIBE	
13	V44949	1	SIVULEVY	SIDE PLATE	SEITENBLECH	
14	V40443	0	VAPAUTUSTANKO KP	CONNECTING ROD	VERBINDUNGSSTANGE	
15	V33190	0	PURISTUSJOUSI	BREAK SPRING	DRUCKFEDER	10.5 x 1 x 40
16			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M10 x 35 DIN 7991
17			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M10 DIN 934
18			VARMISTINRENGAS	RETAINING RING	SICHERUNGSRING	8 x 0.8 DIN 471
19	V44976	0	PYÖRÄ	WHEEL	RAD	MR 50 24 6
20	V45073	0	KANNAKE KP	SUPPORT ASSY	KONSOLE ZUS.	
21	V45076	0	KANNAKE KP	SUPPORT ASSY	KONSOLE ZUS.	
22			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M6 x 12 DIN 7991 10.9
23	V44967	2	KIINNITIN	FASTENER	KLEMME	
24	V44969	1	KIINNITYSRAUTA	FIXTURE	HALTEBÜBGEL	
25			KUUSIORUUVI	HEXAGON SCREW	6-KT-SCHRAUBE	M6 x 40 DIN 931
26			LUKITUSMUTTERI	LOCKING NUT	SICHERUNGSMUTTER	M6 DIN 982

V44719 Purkkipöytä kp Can table assy Dosentisch zus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
27			KUUSIORUUVI	HEXAGON SCREW	6-KT-SCHRAUBE	M8 x 25 DIN 933
28			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M8 DIN 934
29			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M10 x 45 DIN 912
30			LUKITUSMUTTERI	LOCKING NUT	SICHERUNGSMUTTER	M10 DIN 985 Nylock 8.8 Zn
31			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M10 x 35 DIN 912
32			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M10 x 140 DIN 912
33	V44968	0	PIKAVARMISTIN	HOLDER	SCHNELLSICHERUNG	STARLOCK 10
34			KUUSIORUUVI	HEXAGON SCREW	6-KT-SCHRAUBE	M8 x 20 DIN 933 8.8 Zn
35	V44971	0	KAAPELISOVITIN	CABLE INTERFACE	KABELAUSGANG	
36			URARUUVI	SLOTHEAD SCREW	SCHLITZSCHRAUBE	M4 x 10 DIN 7985
37	V40394	0	PYÖRÄ	WHEEL	RAD	
38	V42992	0	SÄÄTÖJALKA	SUPPORTING FOOT	TRÄGERFUSS	M8 x 50
39	V42513	0	LIUKUPALA	SLIDE BLOCK	GLEITSTÜCK	
40	V45080	0	JOHDE	BEAM	FÜHRUNG	
41			KUUSIORUUVI	HEXAGON SCREW	6-KT-SCHRAUBE	M8 x 10 DIN 933 8.8 ZN
42	V45301	0	KOROTUSRUUVI	SPACER STUD	STEBBOLZEN	ZN M3x 6/5 AV5.5 4971050321
43	V45660	0	JATKOMUTTERI	EXTENSION NUT	VERLÄNGERUNGSMUTTER	
44	V42978	0	TÄRINÄNVAIMENNIN	ANTI-VIBRATION MOUNTING	SCHWINGUNGSGEDAEMPfte MON-TAGE	25x15 M8x35
45			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M8 x 20 DIN 912 8.8
46	V46236	0	TASOLEVY	SURFACE PLATE	PLANSCHLEIBE	AISI

V44841 Lävistin kp Puncher assy Lochstanzvorrichtung zus.

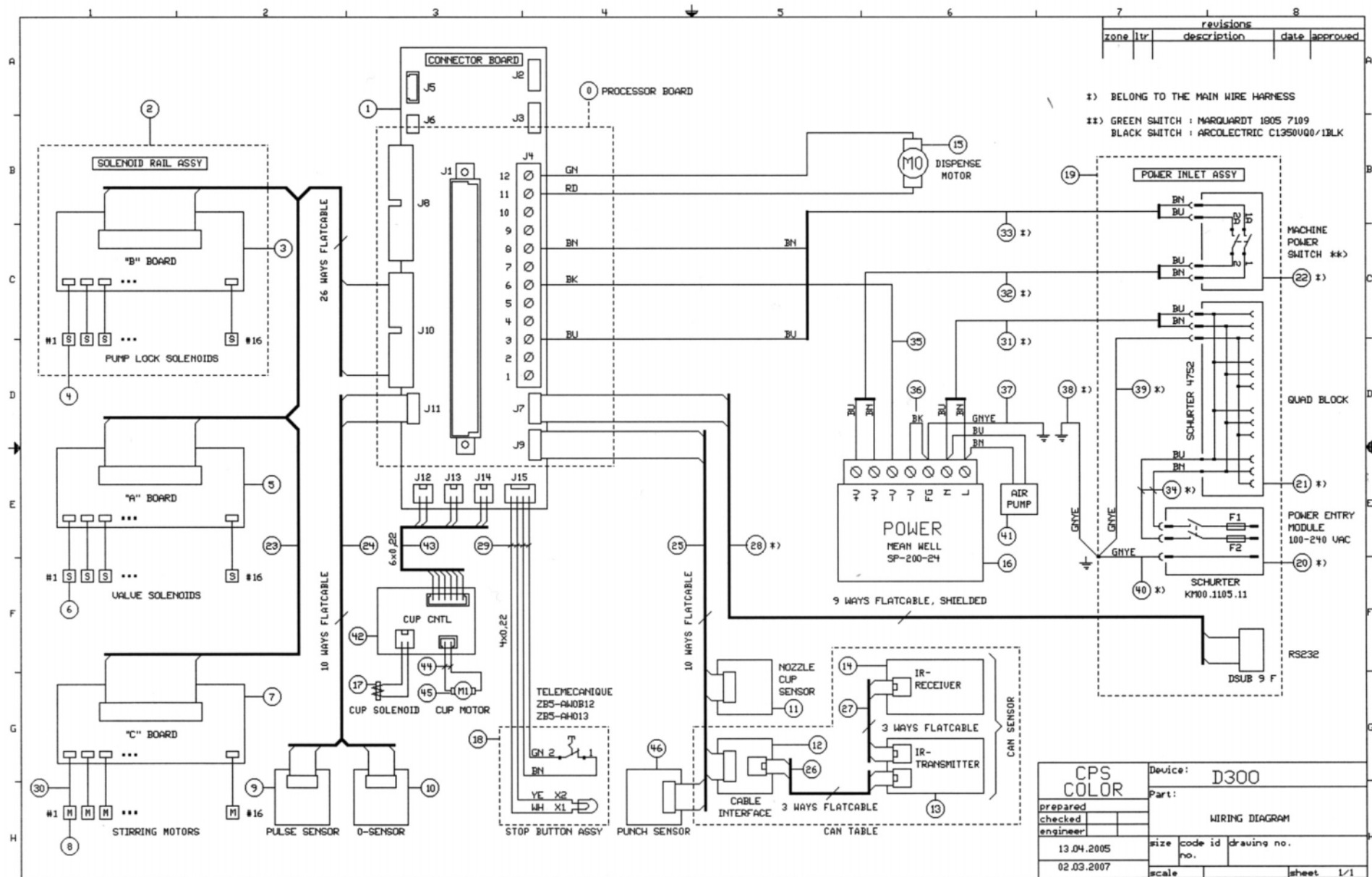
V44841 Lävistin kp Puncher assy Lochstanzvorrichtung zus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V44868	5	KANSI HKP	COVER WELD ASSY	ABDECKKAPPE SCHWEISSUNGZUS.	
2	V44863	3	PIDIN HKP	HOLDER WELD ASSY	HALTER SCHWEISSUNGZUS.	
3	V44644	0	LÄVISTYSTERÄ	PUNCHING BLADE	LOCHSTEMPEL	Ø50
4	V44858	5	KELKKA HKP	CARRIER WELD ASSY	TRÄGER SCHWEISSUNGZUS.	
5	V44850	2	VIPU	LEVER	HEBEL	
6	V44853	5	VIPU HKP	LEVER WELD ASSY	HEBEL SCHWEISSUNGZUS.	
7	V44856	1	AKSELI	SHAFT	ACHSE	
8	V44859	2	RUUVI	SCREW	SCHRAUBE	
9	V44862	0	HOLKKI	SLEEVE	HÜLSE	
10	V44768	0	LIUKULAAKERI	SLIDING BEARING	GLEITLAGER	GLY.PBG 151709 F
11	V44867	2	KIRISTYSRENGAS	BINDING RING	SPANNRING	
12	V44866	1	KIINNITYSHOLKKI	SLEEVE COUPLING	SPANNBUCHSE	
13	V44972	2	TIPPAKUPPI	DROP CATCHER	TROPFENFÄNGER	
14	V03783	0	LIUKULAAKERI	SLIDING BEARING	GLEITLAGER	GLY PBG 081005.5F
15	V44877	4	KAMPI HKP	CRANK WELD ASSY	KURBEL SCHWEISSUNGZUS.	
16	V44953	1	JOUSI	SPRING	FEDER	
17	V44956	1	VÄÄNTIÖ	CRANK	MITNEHMER	
18	V44958	1	HOLKKI	SLEEVE	HÜLSE	
19			KUUSIORUUVI	HEXAGON SCREW	6-KT-SCHRAUBE	M8 x 30 DIN 933 8.8
20	V40846	0	LIUKULAAKERI	SLIDING BEARING	GLEITLAGER	GLY.PBG 121407 F
21			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M10 x 12 DIN 7991
22			SORMIRUUVI	KNURLED-HEAD SCREW	HALTESCHRAUBE	M6 x 15
23			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M6 x 10 DIN 912
24			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M8 x 20 DIN 912 8.8
25	V45645	0	TULPPA	PLUG	STOPFEN	IKH 22 18-20 S ACKURAT
26	V46366	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	PUNCHER
27	V46333	0	PIDIN	HOLDER	HALTER	FOR PUNCHING SENSOR
28	V46336	0	KIINNITYSRUUVI	FIXING SCREW	BEFESTIGUNGSSCHRAUBE	FOR MAGNET

V44841 Lävistin kp Puncher assy Lochstanzvorrichtung zus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
29	V43650	0	MAGNEETTI	MAGNET	MAGNET	Ø5X5
30	V46011	0	KOROTUSHOLKKI	SPACER	ERHÖHUNGSBUCHSE	PA MU Ø8/Ø4.2 x 4
31			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 8 DIN 912

V45102 Sähkökaavio ... Electrical chart ... Schaltbild



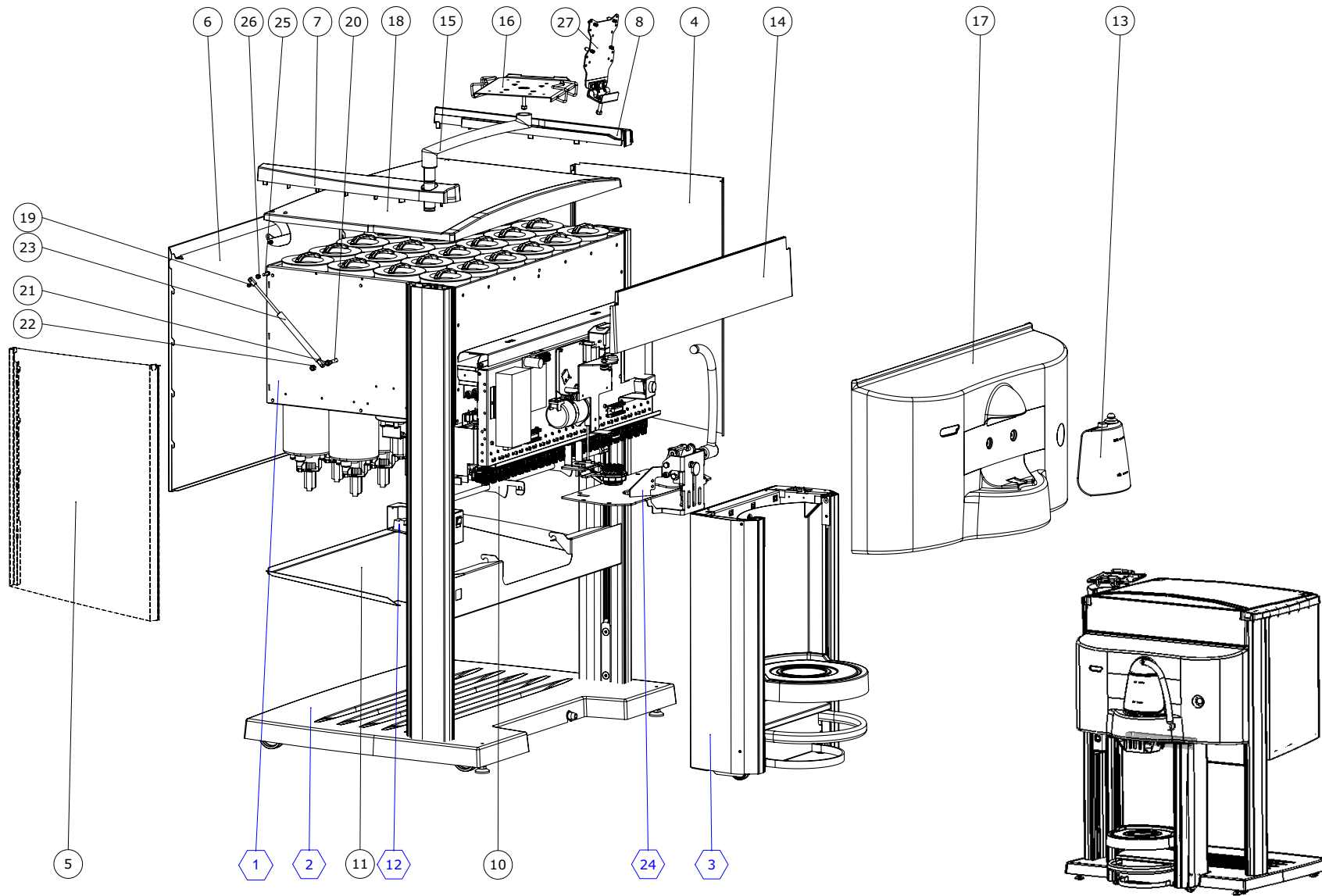
V45102 Sähkökaavio ... Electrical chart ... Schaltbild

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
0	V43786	0	PROSESSORIKORTTI	PROCESSOR BOARD	PROZESSORKARTE	
1	V44752	0	LIITINKORTTI	CONNECTOR BOARD	SCHNITTSTELLENKARTE	D300CON-A.1
2	V44249	0	SOLENOIDIKISKO KP	SOLENOID RAIL ASSY	SOLENOIDSCHIENEZUS.	
3	V44844	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300B-A.1
4	V43561	0	SOLENOIDI	SOLENOID	SOLENOID	141-05B22XX SMO-0520S06AU
5	V44845	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300A-A.1
6	V43771	2	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
7	V44846	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300C-A.1
8	V45162	0	MOOTTORI	MOTOR	MOTOR	6611001600 BUEHLER
9	V43769	0	PULSSIANTURI	PULSE SENSOR	PULSSENSOR	PULS
10	V43773	0	NOLLA-ANTURI	ZERO SENSOR	NULLSENSOR	ZERO
11	V43676	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	CUP
12	V44971	0	KAAPELISOVITIN	CABLE INTERFACE	KABELAUSGANG	
13	V06270	0	IR LÄHETINKORTTI	IR TRANSMITTER BOARD	IR ABSENDERKARTE	SA 814.V1
14	V06271	0	IR VASTAANOTINKORTTI	IR RECEIVER BOARD	IR ABNEHMERKARTE	SA 815.V2
15	V43770	0	MOOTTORI	MOTOR	MOTOR	COROB PART NO: 1M2-614-01
16	V43803	0	VIRTALÄHDE	POWER SUPPLY	STROMVERSORGUNG	MEAN WELL SP-200-24
17	V43771	4	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
18	V45099	1	PYSÄYTYSKYTKIN KP	STOP BUTTON ASSY	HALTEKNOPFZUS.	
19			PÄÄJOHTOSARJA	MAIN WIRE HARNESS	HAUPTKABELSERIE	
20	V44748	0	KYTKIMELLINEN PISTOKE	POWER ENTRY MODULE	STECKER MIT SCHALTER	
21	V41201	0	VERKKOLIITIN	MAINS CONNECTOR	NETZANSCHLUSS	1.5 MM 475.240.00 QUADBLOC
22	V43933	1	KYTKIN (SÄHK) (MUSTA)	SWITCH (BLACK)	SCHALTER (SCHWARZ)	ARCOLECTRIC C1350VQ0/1BLK
			KYTKIN (SÄHK) (VIHREÄ)	SWITCH (GREEN)	SCHALTER (GRÜN)	MARQUARDT 1805.7109
23	V45056	0	SOLENOIDIKAAPELI	SOLENOID CABLE	SOLENOIDKABEL	
24	V45057	0	ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	
25	V45058	1	ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	

V45102 Sähkökaavio ... Electrical chart ... Schaltbild

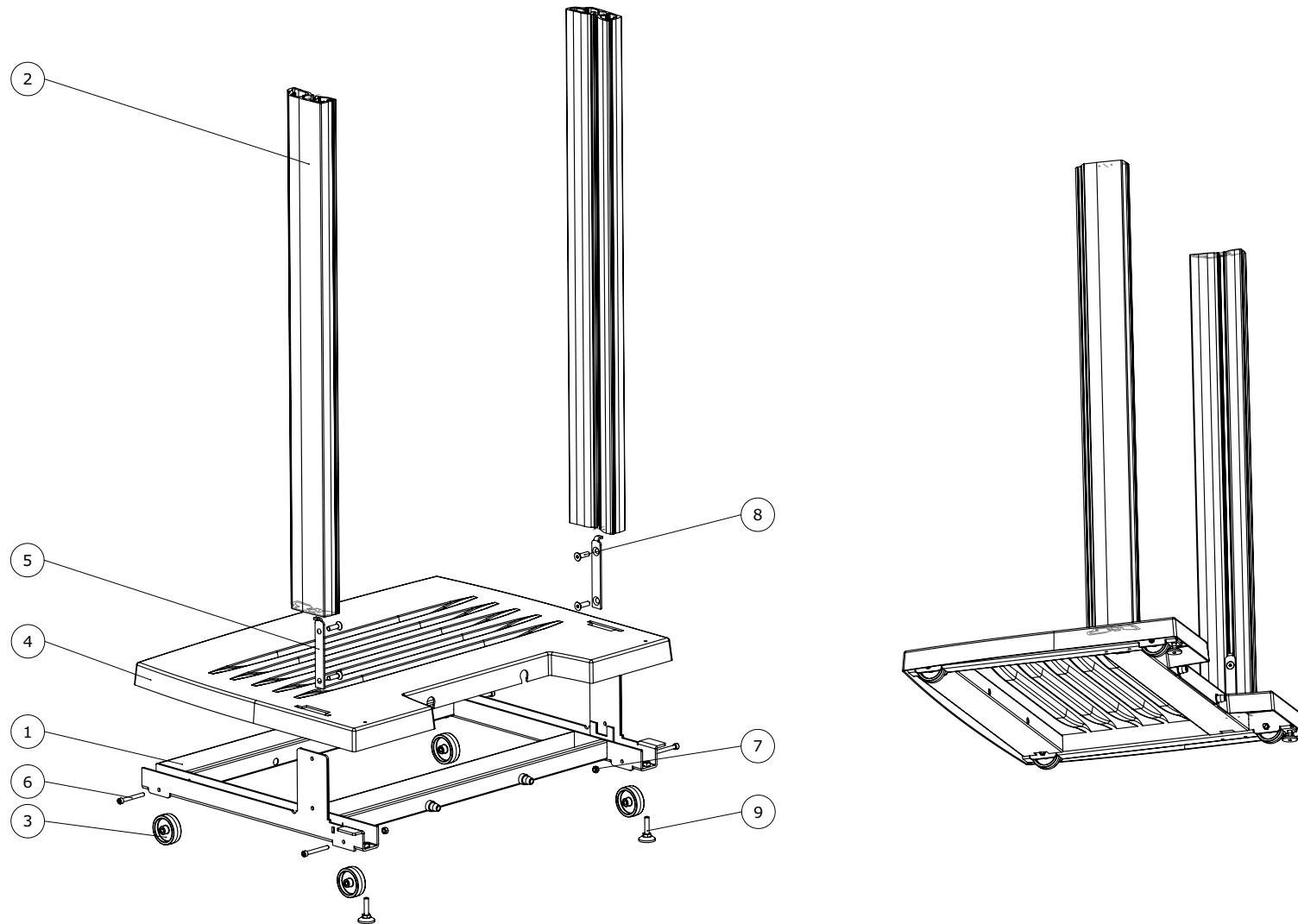
No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
26	V45059	0	ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	
27	V45060	0	ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	
28			SARJALIIKENNEKAAPELI	SERIAL LINE CABEL	RS-KABEL	RS232
29	V45055	0	KAAPELI	CABLE	KABEL	
30.1			JOHTOSARJA	WIRE HARNESS	KABELSERIE	1
30.2			JOHTOSARJA	WIRE HARNESS	KABELSERIE	2
30.3			JOHTOSARJA	WIRE HARNESS	KABELSERIE	3
30.4			JOHTOSARJA	WIRE HARNESS	KABELSERIE	4
31			SYÖTTÖJÄNNITEKAAPELI	MAIN POWER CABLE	NETZKABEL	230 V
32			KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	1 24 V
33			KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	2 24 V
34			SYÖTTÖJÄNNITEKAAPELI	MAIN POWER CABLE	NETZKABEL	QUAD BLOCK
35			KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	0 V (+24 V)
36			MAADOITUSKAAPELI	GROUND CABLE	ERDUNGSKABEL	+24 V
37			SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	+24 V
38			SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	
39			SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	QUAD BLOCK
40			SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	
41	V43890	0	ILMAPUMPPU	AIR PUMP	LUFTPUMPE	ELITE 799
42	V45707	0	OHJAINKORTTI (SUUTINKUPPI)	CONTROL BOARD (DROP CATCHER)	STEUERKREISKARTE (KUPPLUNGSDREHER)	D300CNTL-A.1
43	V46238	0	OHJAUSKAAPELI (SUUTINKUPPI)	CONTROL CABLE (DROP CATCHER)	HILFSKABEL (KUPPLUNGSDREHER)	
44	V46237	0	MOOTTORIKAAPELI (SUUTINKUPPI)	MOTOR CABLE (DROP CATCHER)	MOTORKABEL (KUPPLUNGSDREHER)	
45	V45162	0	MOOTTORI (SUUTINKUPPI)	MOTOR (DROP CATCHER)	MOTOR (KUPPLUNGSDREHER)	6611001600 BUEHLER
46	V46366	0	HALL-ANTURI (LÄVISTYS)	HALL SENSOR (PUNCHER)	HALLSENSOR (LOCHSTANZ)	PUNCHER

V45327 COROB™ D300-24/SR



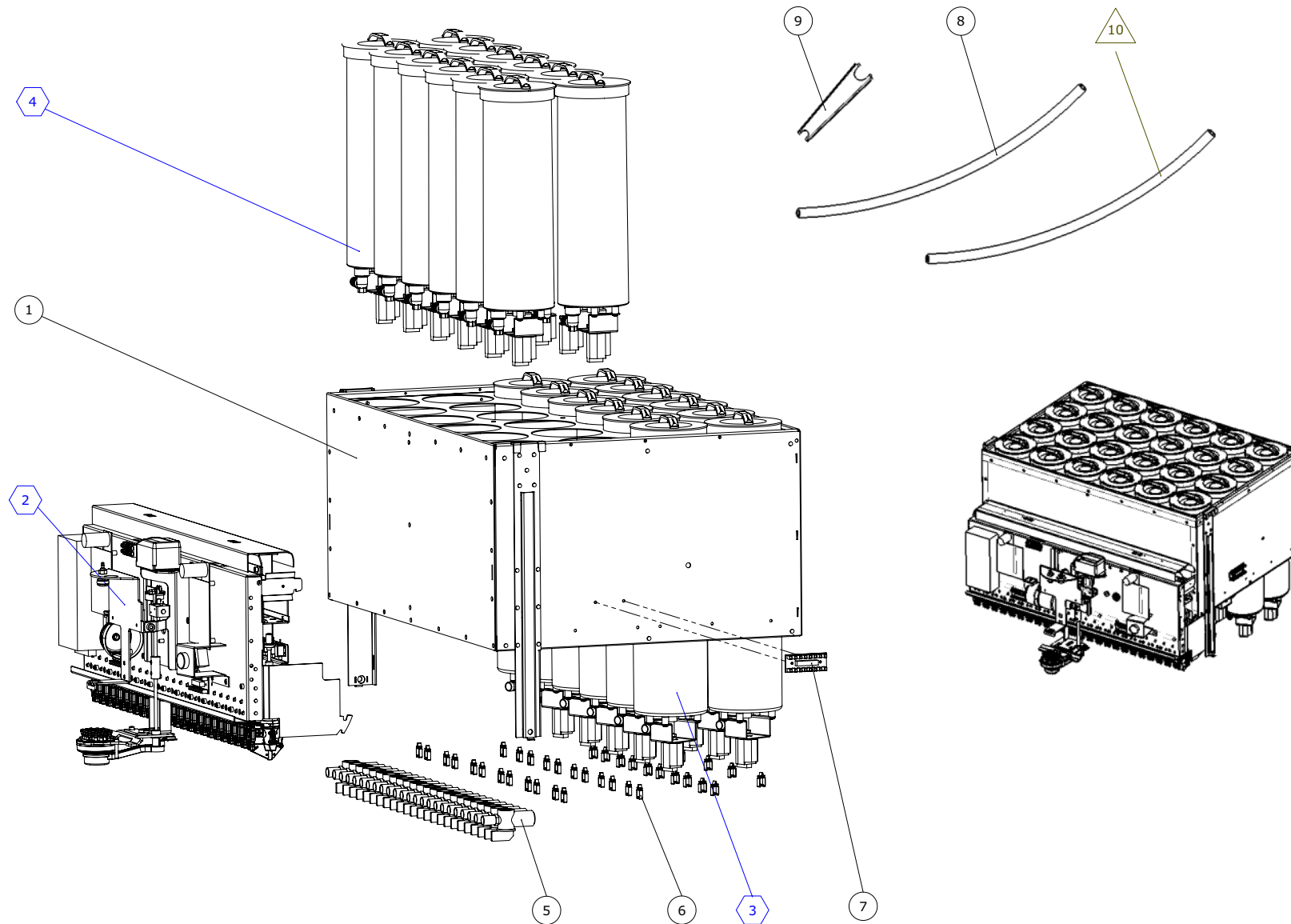
V45327 COROB™ D300-24/SR

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1			YLÄRUNKO KP	UPPER FRAME ASSY	OBERRAHMEN ZUS.	(50)
2			JALKA KP	FOOT ASSY	FUSS ZUS.	(48)
3			PURKKIPÖYTÄ KP	CAN TABLE ASSY	DOSENTISCH ZUS	(37)
4	V44453	4	SIVULEVY	SIDE PLATE	SEITENBLECH	R RAL9007
5	V45217	1	SIVULEVY	SIDE PLATE	SEITENBLECH	L RAL9007
6	V45370	0	TAKALEVY	BACK PANEL	ENDBLECH	
7	V45039	0	KEHYS	FRAME	RAHMEN	L
8	V45038	0	KEHYS	FRAME	RAHMEN	R
9	V44673	4	KIINNITYSLEVY	ADAPTER PLATE	STELLSCHEIBE	
10	V45367	0	KIINNITIN	FASTENER	KLEMME	
11	V45371	0	ALALEVY	LOWER PLATE	UNTERE PLATTE	
12	V44749	0	VERKKOLEVY	MAINS CONNECTING PLATE	ANCSHLUSSBLECH FÜR NETZSTEKER	(35)
13	V45112	3	SÄILIÖ KP	CANISTER ASSY	BEHÄLTERZUS.	
14	V45379	0	ETULEVY	FRONT PANEL	FRONTABDECKUNG	
15	V44634	1	KANNAKE KP	SUPPORT ASSY	KONSOLE ZUS.	
16	V45343	0	NÄYTTÖTASO KP	MONITOR STAND ASSY	MONITORSTAND ZUS.	FOR CRT MONITOR
17	V45381	0	ETUKOTELO	FRONT CASING	FRONTBUCHSE	
18	V45693	0	KANSI KP	COVER ASSY	ABDECKKAPPE ZUS.	
19			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 6 DIN 912
20			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M8 x 30 DIN 6912
21			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M8 DIN 934
22			LUKITUSMUTTERI	LOCKING NUT	SICHERUNGSMUTTER	M8 DIN 985
23	V42534	0	KAASUJOUSI	GAS SPRING	GASFEDER	16-1-168-105-A4-B6-120N
24	V44841	4	LÄVISTIN KP	PUNCHER ASSY	LOCHSTANZVORRICHTUNG ZUS.	(40)
25			KUUSIORUUVI	HEXAGON SCREW	6-KT-SCHRAUBE	M6 x 20 DIN 933 8.8
26			LUKITUSMUTTERI	LOCKING NUT	SICHERUNGSMUTTER	M6 DIN 985
27	V45182	2	NÄYTTÖTASO KP	MONITOR STAND ASSY	MONITORSTAND ZUS.	FOR FLAT SCREEN (VESA)

V45352 Jalka kp Foot assy Fusszus.

V45352 Jalka kp Foot assy Fusszus.

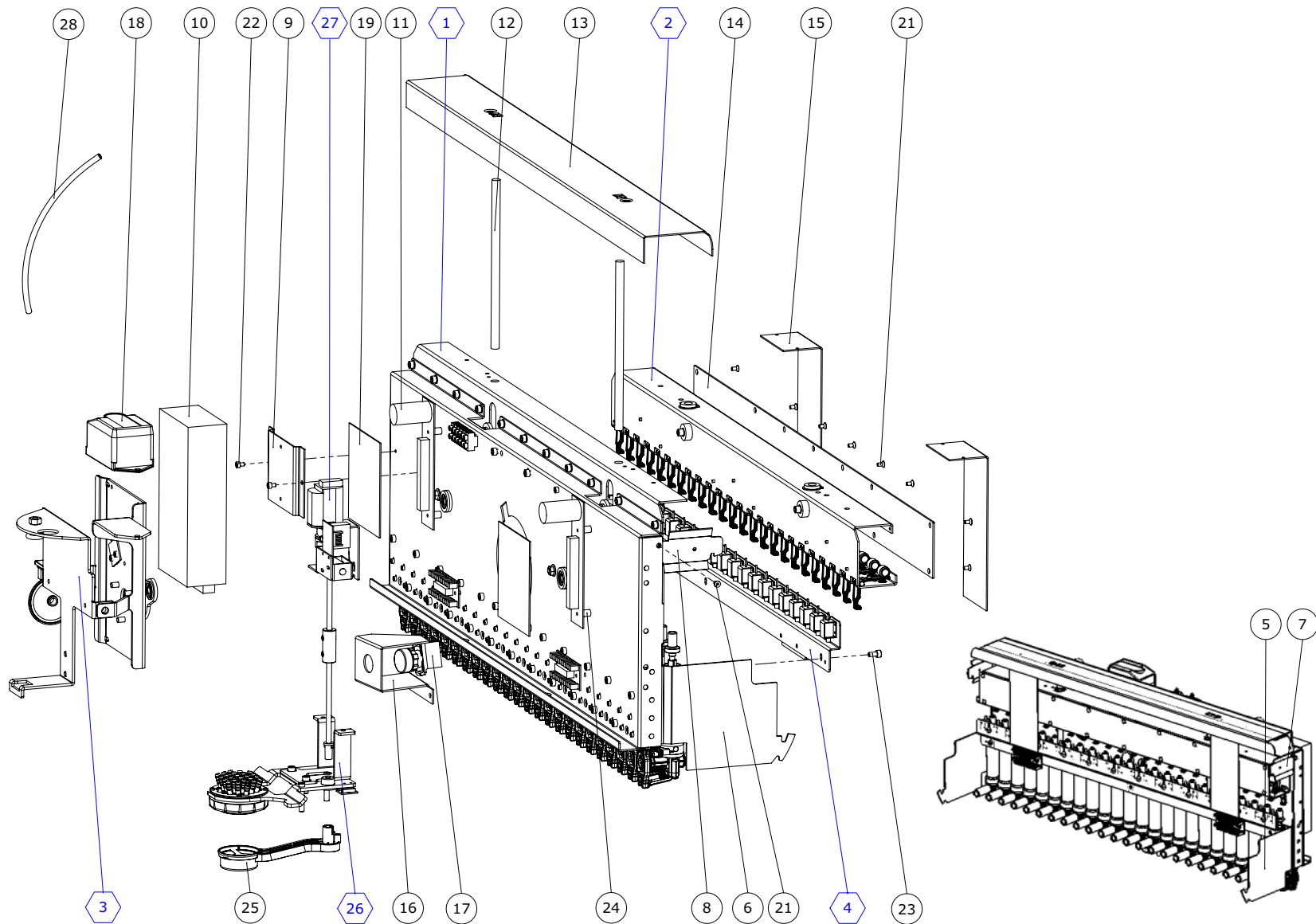
No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45348	0	JALKA HKP	FOOT WELD ASSY	FUSS SCHWEISSUNGZUS.	
2	V44424	2	ALUMIINIJOHDE	ALUMINIUM GUIDE	ALUMINIUMFÜHRUNG	L=1233
3	V04461	0	TEOLLISUUSPYÖRÄ	INDUSTRIAL WHEEL	INDUSTRIELLRAD	YKI-70 N
4	V45349	0	POHJALEVY	BASE PLATE	BODENPLATTE	
5			ALUSLEVY	WASHER	UNTERLAGSSCHEIBE	
6			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M8 x 70 8.8 Zn DIN 912
7			LUKITUSMUTTERI	LOCKING NUT	SICHERUNGSMUTTER	M8 DIN 985
8			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M10 x 35 DIN 7991
9	V45410	0	SÄÄTÖJALKA	SUPPORTING FOOT	TRÄGERFUSS	SF 3817M10 40 I S

V45364 Ylärunko kp Upper frame assy Oberrahmenzus.

V45364 Ylärunko kp Upper frame assy Oberrahmenzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1			SÄILIÖTELIN Kp	RACK FOR CANISTERS ASSY	BEHÄLTERGESTEL ZUS.	
2			ANNOSTELUMODUULI Kp	DISPENSING MODULE ASSY	DOSIERMODUL ZUS.	(52)
3	V45166	0	PASTASÄILIÖ Kp	COLORANT CANISTER ASSY	PASTENBEHÄLTER ZUS.	6 L POM COMPLETE ASSY (8)
4	V44992	0	PASTASÄILIÖ Kp	COLORANT CANISTER ASSY	PASTENBEHÄLTER ZUS.	4 L POM COMPLETE ASSY (8)
5	V45030	0	VENTTIILI	VALVE	VENTIL	
6	V44935	0	KIINNITIN	FASTENER	KLEMME	RICHCO WS-2-01
7	V44846	1	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300C-A.1
8	V45434	0	LETKU Säiliö - Pumppu	HOSE Canister - Pump	SCHLAUCH Behälter - Pumpe	16/23 MM (TOPPAIR)
9	V45345	0	ASENNUSTYÖKALU	FITTER'S TOOL	INSTALLATIONSWERKZEUG	FOR JOHN GUEST FITTINGS
10	V46220	SR	LETKU Säiliö - Pumppu	HOSE Canister - Pump	SCHLAUCH Behälter - Pumpe	FEP ID 5/8" x OD 3/4", Ø15,88/ Ø19,05

V45281 ANNOSTELUMODUULI KP DISPENSING MODULE ASSY DOSIERMODULZUS.



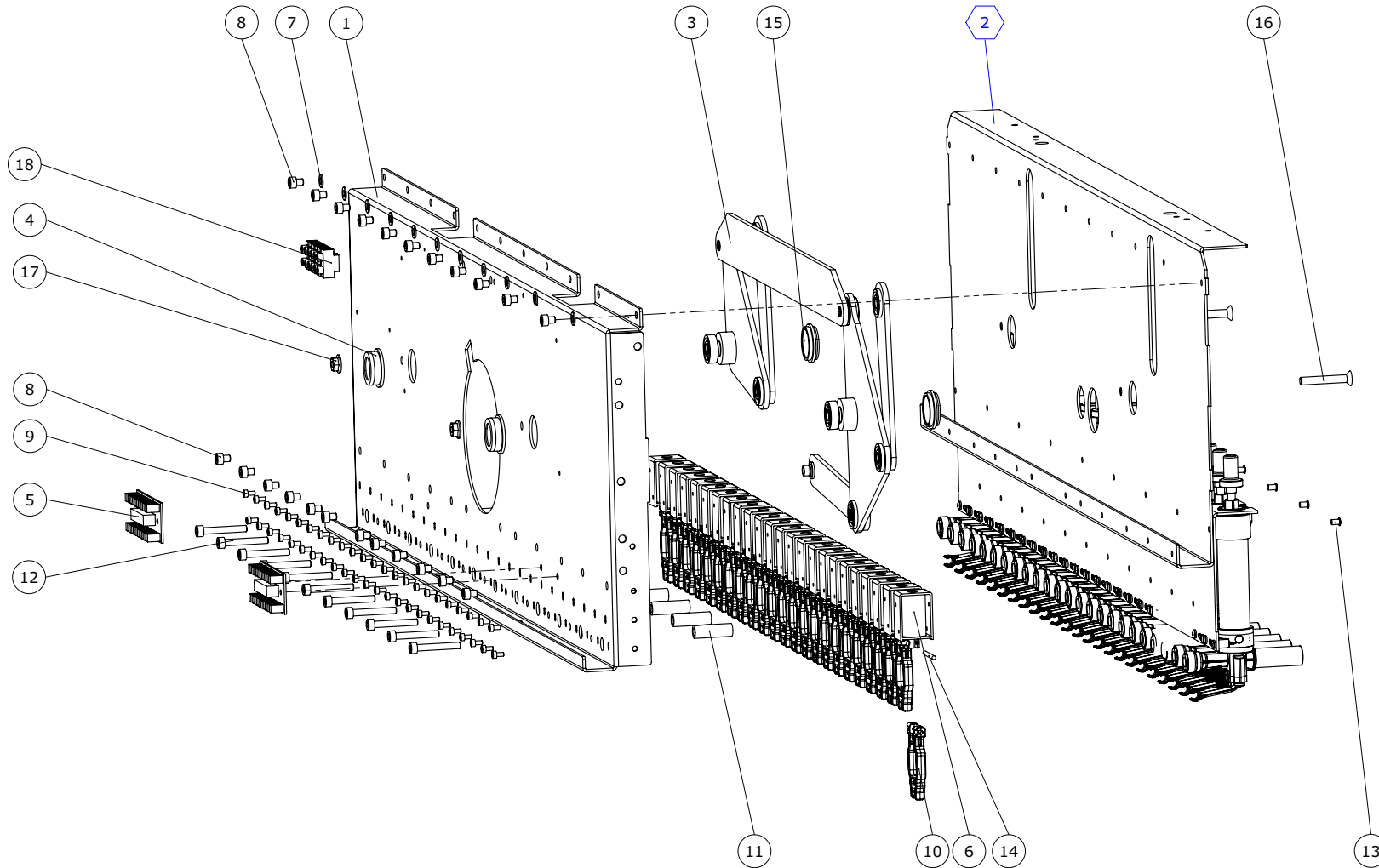
V45281 ANNOSTELUMODUULI KP DISPENSING MODULE ASSY DOSIERMODULZUS.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1			KÄYTTÖLEVY KP	MOTION PLATE ASSY	ABTRIEBLATT ZUS.	(55)
2	V45272	2	ANNOSTELUNOKKA KP	DISPENSING CAM ASSY	KOLBENHEBER ZUS.	(59)
3			ANNOSTELUMOOTTORI KP	DISPENSING MOTOR ASSY	DOSIERMOTOR ZUS.	(19)
4	V45278	1	SOLENOIDIKISKO KP	SOLENOID RAIL ASSY	SOLENOIDSCHIENEZUS.	(61)
5	V44632	2	SARANA	HINGE	GELENK	
6	V45941	0	SARANA	HINGE	GELENK	R
7	V43800	1	HAKA	CATCH	SPERRKLINKE	
8	V43804	1	HAKA	CATCH	SPERRKLINKE	
9	V43797	1	PIDIN	HOLDER	HALTER	
10	V43803	0	VIRTALÄHDE	POWER SUPPLY	STROMVERSORGUNG	MEAN WELL SP-200-24
11	V44752	0	LIITINKORTTI	CONNECTOR BOARD	SCHNITTSTELLENKARTE	D300CON-A.1
12	V43792	1	JOHDE	BEAM	FÜHRUNG	
13	V45267	0	KANSI	COVER	DECKEL	
14	V45273	2	KANSI	COVER	DECKEL	
15	V43798	1	KAAPELIKOURU	CABLE TRAY	ENERGIEKETTENTRÄGER	
16			KÄYTTÖPANEELI	OPERATING PANEL	BEDIENUNGSTAFEL	
17			VALOKEHYSPAINIKE	LIGHT BUTTON	DRUCKKNOPF MIT LICHT	SCHNEIDER ZB5 - A
	V45099	1	PYSÄYTYSKYTKIN KP (Käyttöpaneeli + valokehys- painike + kaapeli)	STOP BUTTON ASSY (Operating panel + light button + cable)	HALTEKNOPFZUS. (Bedienungstafel + Druckknopf mit licht + Kabel)	
18	V43890	0	ILMAPUMPPU	AIR PUMP	LUFTPUMPE	ELITE 799
19	V43786	0	PROSESSORIKORTTI	PROCESSOR BOARD	PROZESSORKARTE	
20			NIITTI	RIVET	NIETE	Ø4 x 8 STEEL
21			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 8 DIN 7991 10.9
22			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 6 DIN 912
23			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 10 DIN 912
24	V04695	0	KOROTUSHOLKKI	SPACER	ERHÖHUNGSBUCHSE	PA 8/4.2 x 15
25	V46635	0	TIPPAKUPPI KP	DROP CATCHER ASSY	TROPFENFÄNGERZUS.	

V45281 ANNOSTELUMODUULI KP DISPENSING MODULE ASSY DOSIERMODULZUS.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
26	V46287	1	SUUTIN KP	NOZZLE ASSY	DÜSE ZUS.	(27)
27	V46377	1	SUUTTIMENSULKIJA KP	NOZZLE CLOSER ASSY	DÜSENSCHLIESSER ZUS.	WITH MOTOR (25)
28	V04006	0	KOSTUTUSLETKU vesisäiliöltä suuttimille	HUMIDIFYING HOSE from reservoir to nozzles	BEFEUCHTUNUNGSSCHLAUCH von Reservoir zu Düsen	PVC 4/7MM

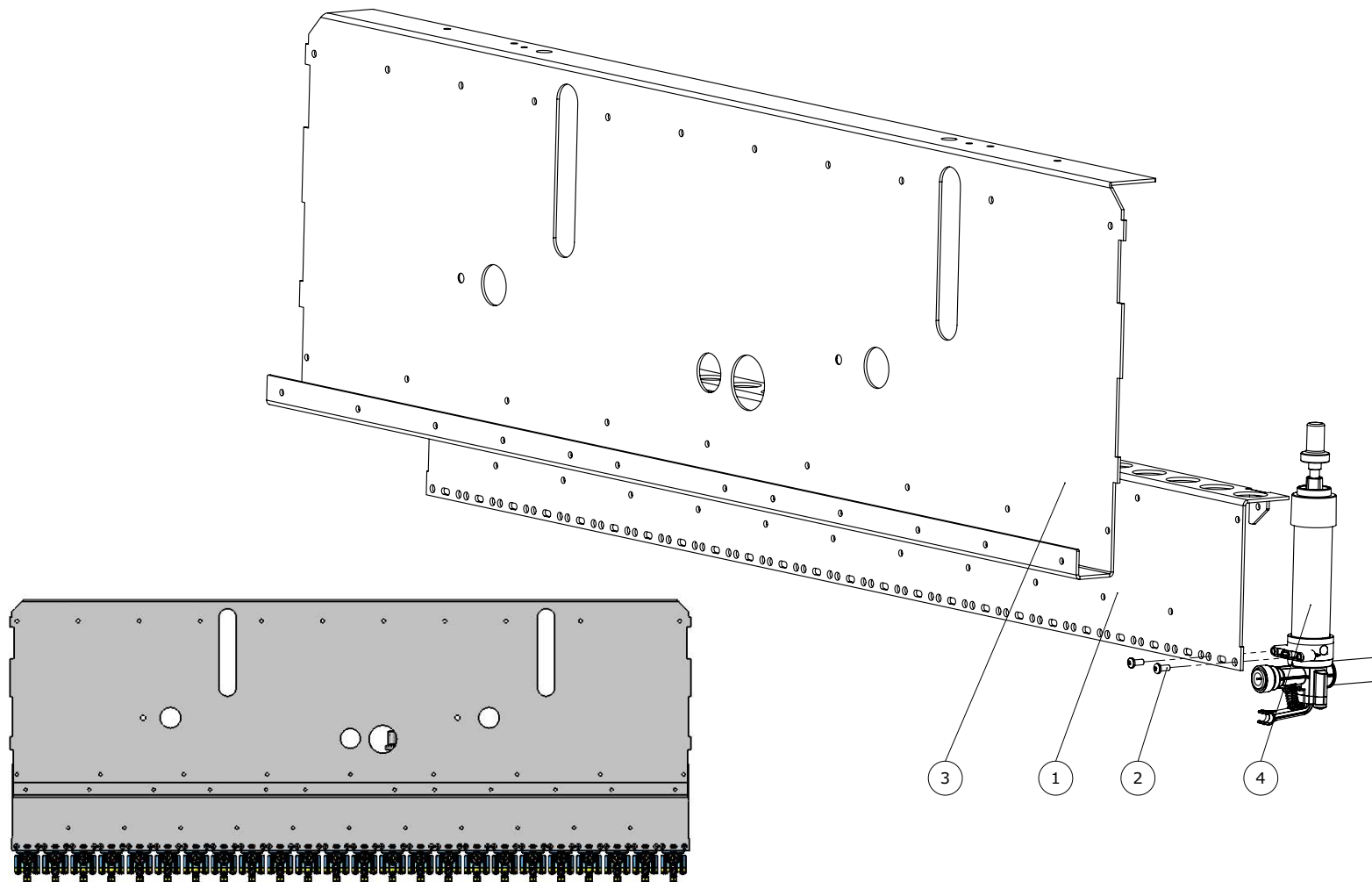
V45283 Käyttölevy kp Motion plate assy Abtriebblattzus.



V45283 Käyttölevy kp Motion plate assy Abtriebblattzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45263	3	ETULEVY	FRONT PANEL	FRONTABDECKUNG	
2			PUMPPULOHKO KP	PUMP BLOCK ASSY	PUMPEBLOCK ZUS.	FFKM WITH YELLOW LEVERS (57)
3	V43967	1	KÄYTTÖVIPU KP	ACTUATOR ASSY	ABTRIEBHEBEL ZUS.	
4	V43675	0	LAAKERIPESÄ	BEARING HOUSING	LAGERGEHÄUSE	
5	V44845	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300A-A.1
6	V43771	4	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
7			ALUSLEVY	WASHER	UNTERLAGSSCHEIBE	M5 DIN 125
8			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 6 DIN 912
9			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M3 x 6 DIN 912
10	V44657	0	VETOTANKO	DRAFT BAR	ANGRIFFSTANGE	
11	V44502	0	KOROTUSHOLKKI	SPACER	ERHÖHUNGSBUCHSE	6.2 x 30
12			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M5 x 35 DIN 912
13			NIITTI	RIVET	NIETE	Ø4 x 8 STEEL
14			LIERIÖSOKKA	CYLINDRIC PIN	ZYLINDERSTIFT	Ø3; L=30; DIN 7 A2
15	V43677	0	LAAKERIPESÄ	BEARING HOUSING	LAGERGEHÄUSE	
16			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M6 x 40 DIN 7991 10.9
17			KUUSIOMUTTERI	HEXAGON NUT	6-KT-MUTTER	M6 10.9 WULOCK
18	V36012	0	RIVILIITIN	TERMINAL BLOCK	REIHENKLEMME	SSTL 1933515-7

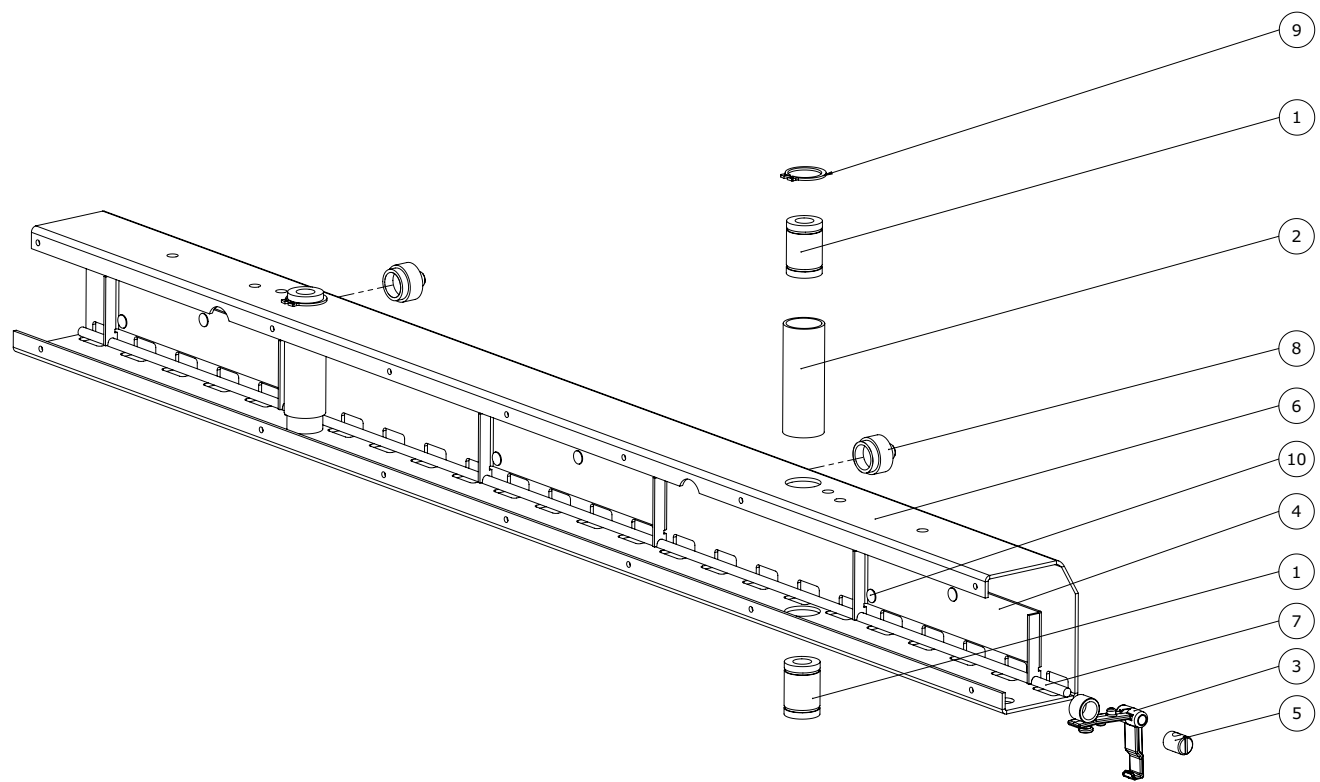
V46651 Pumppulohko kp Pump block assy Pumpenblockzus.



V46651 Pumppulohko kp Pump block assy Pumpenblockzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V45265	2	KIINNITYSLEVY	ADAPTER PLATE	STELLSCHEIBE	
2	V45028	0	PT-RUUVI	PT-SCREW	PT-SCHRAUBE	1442 ZN PZ 3,5 x 8
3	V45264	2	TAKALEVY	BACK PANEL	ENDBLECH	
4	V45563	0	ANNOSTELUPUMPPU KP	DISPENSING PUMP ASSY	DOSIERPUMPE ZUS.	VITON WITH BLACK LEVER
	V46219	SR	ANNOSTELUPUMPPU KP	DISPENSING PUMP ASSY	DOSIERPUMPE ZUS.	FFKM WITH YELLOW LEVER

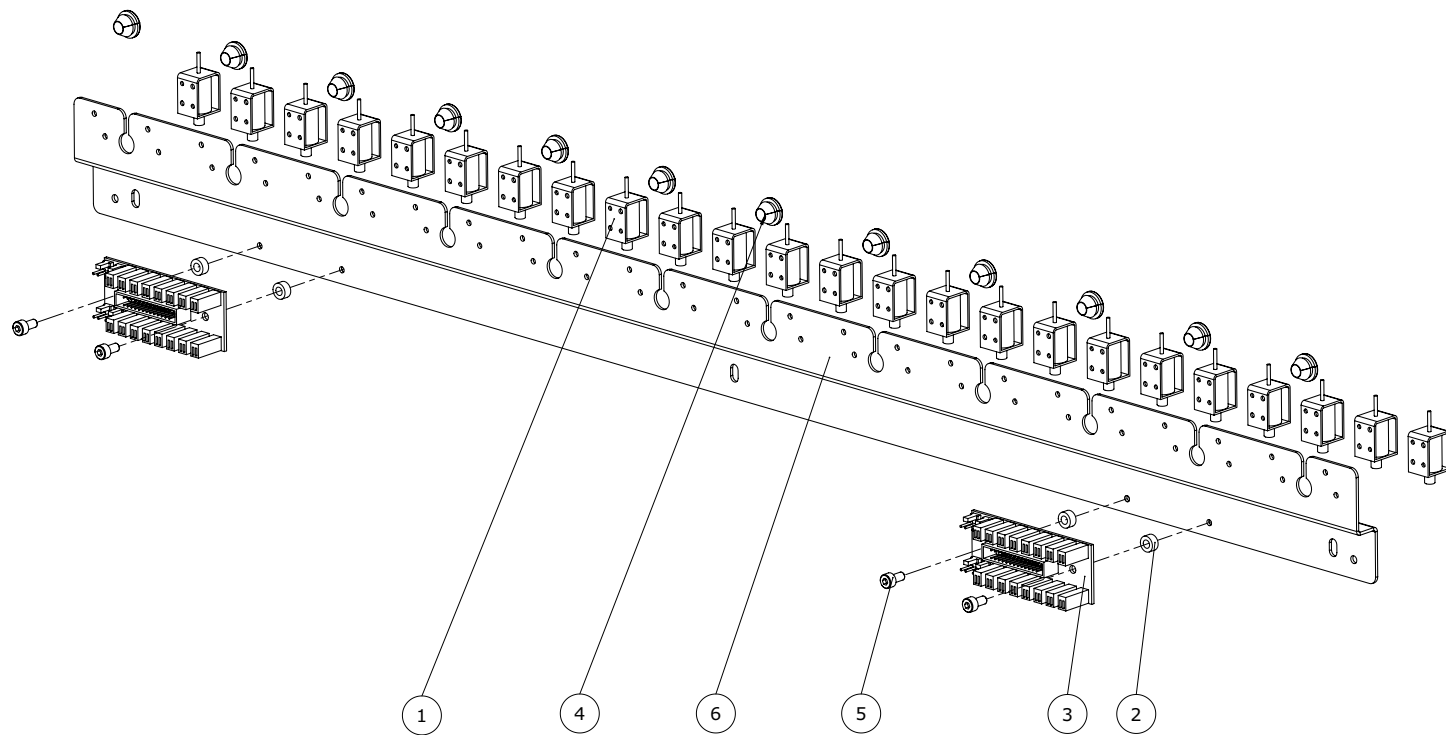
V45272 Annostelunokka kp Dispensing cam assy Kolbenheberzus.



V45272 Annostelunokka kp Dispensing cam assy Kolbenheberzus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V43631	0	KUULAHOLKKI	LINEAR BALL BEARING	KUGELLAGERHÜLSE	LM 10 UU
2	V43634	0	HOLKKI	SLEEVE	HÜLSE	
3	V43635	1	NOSTIN	LIFTER	HEBER	
4	V43638	0	KIINNIKE	BRACKET	BEFESTIGUNG	
5			MUTTERI	NUT	MUTTER	M6x10x1 WÜRTH 9276 610 14
6	V45269	4	ANNOSTELUPALKKI	BAR	BALKEN	
7	V45731	0	AKSELI	SHAFT	ACHSE	
8	V43651	0	VETOHOLKKI	WITHDRAWAL SLEEVE	ABZIEHHÜLSE	
9			VARMISTINRENGAS	RETAINING RING	SICHERUNGSRING	19 x 1.2 DIN 471
10			NIITTI	RIVET	NIETE	Ø3.2 x 8 STEEL

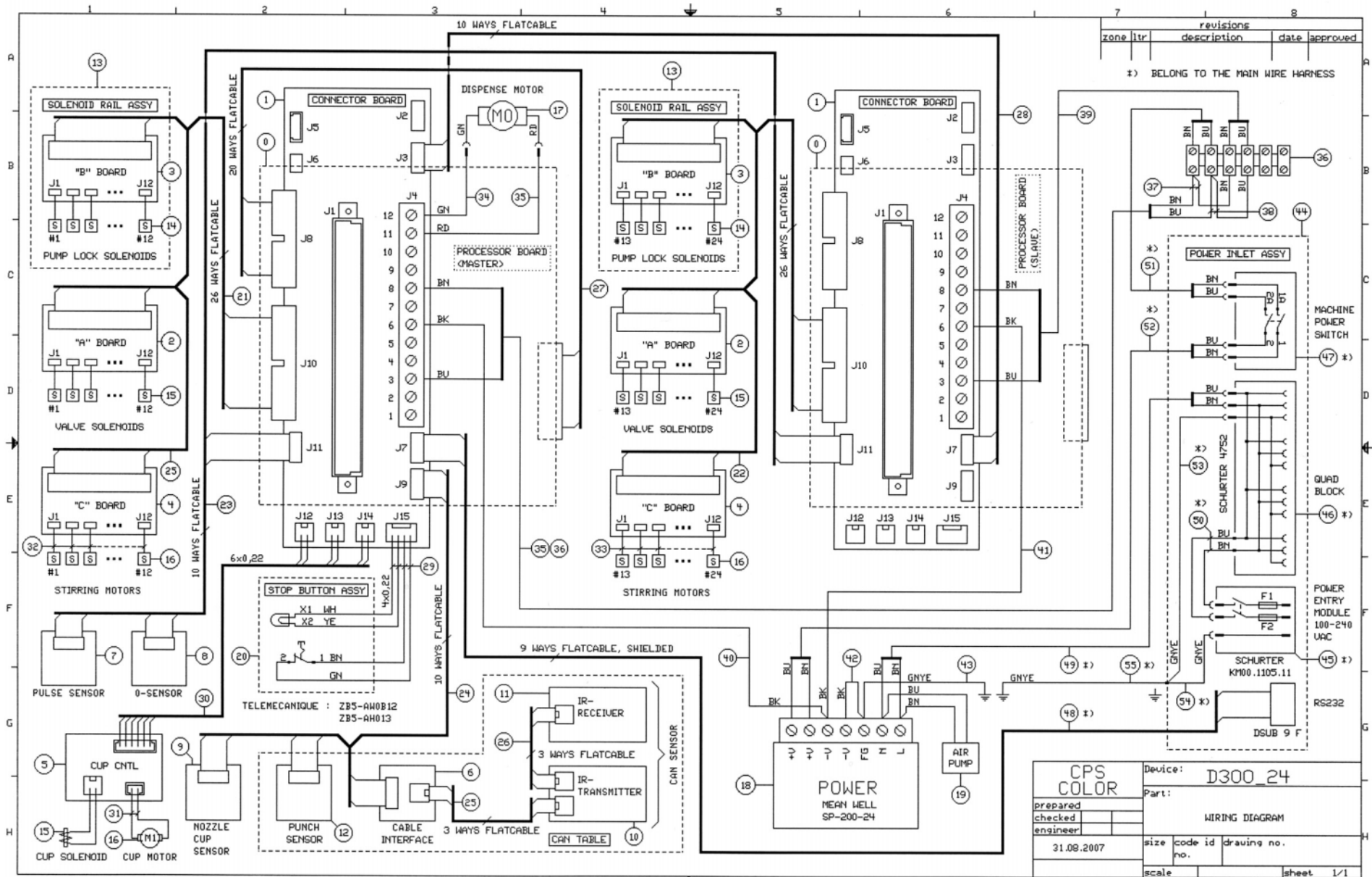
V45278 Solenoidikisko kp Solenoid rail assy Solenoidschienezus.



V45278 Solenoidikisko kp Solenoid rail assy Solenoidschienezus.

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
1	V43561	2	SOLENOIDI	SOLENOID	SOLENOID	141-05B22XX SMO-0520S06AU
2	V43757	0	RULLA	ROLLER	ROLLE	SKIFFY 005 4205 000 02
3	V44844	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300B-A.1
4	V43830	0	LÄPIVIENTI	LEAD-IN	EINGANG	RICHCO QFG-16210 (13.5/ 10x2)
5			KUUSIOKOLORUUVI	ALLEN SCREW	INNEN-6-KT-SCHRAUBE	M4 x 8 DIN 912
6	V45277	1	KIINNITYSLEVY	ADAPTER PLATE	STELLSCHEIBE	

V46663 Sähkökaavio ... Electrical chart ... Schaltbild



V46663 Sähkökaavio ... Electrical chart ... Schaltbild

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
0	V43786	0	PROSESSORIKORTTI	PROCESSOR BOARD	PROZESSORKARTE	
1	V44752	0	LIITINKORTTI	CONNECTOR BOARD	SCHNITTSTELLENKARTE	D300CON-A.1
2	V44845	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300A-A.1
3	V44844	0	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300B-A.1
4	V44846	1	LIITYNTÄKORTTI	INTERFACE BOARD	ANSCHLUSSKARTE	D300C-A.1
5	V45707	0	OHJAINKORTTI	CONTROL BOARD	STEUERKREISKARTE	D300CNTL-A.1
6	V44971	0	KAAPELISOVITIN	CABLE INTERFACE	KABELAUSGANG	
7	V43769	0	PULSSIANTURI	PULSE SENSOR	PULSSENSOR	PULS
8	V43773	0	NOLLA-ANTURI	ZERO SENSOR	NULLSENSOR	ZERO
9	V43676	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	CUP
10	V06270	0	IR LÄHETINKORTTI	IR TRANSMITTER BOARD	IR ABSENDERKARTE	SA 814.V1
11	V06271	0	IR VASTAANOTINKORTTI	IR RECEIVER BOARD	IR ABNEHMERKARTE	SA 815.V2
12	V46366	0	HALL-ANTURI	HALL SENSOR	HALLSENSOR	PUNCHER
13	V45278	1	SOLENOIDIKISKO KP	SOLENOID RAIL ASSY	SOLENOIDSCHIENEZUS.	
14	V43561	2	SOLENOIDI	SOLENOID	SOLENOID	141-05B22XX SMO-0520S06AU
15	V43771	4	SOLENOIDI	SOLENOID	SOLENOID	142-08A62XX SMO-0837L9.8CJ
16	V45162	0	MOOTTORI	MOTOR	MOTOR	6611001600 BUEHLER
17	V43770	0	MOOTTORI	MOTOR	MOTOR	COROB PART NO: 1M2-614-01
18	V43803	0	VIRTALÄHDE	POWER SUPPLY	STROMVERSORGUNG	MEAN WELL SP-200-24
19	V43890	0	ILMAPUMPPU	AIR PUMP	LUFTPUMPE	ELITE 799
20	V45099	1	PYSÄYTYSKYTKIN KP	STOP BUTTON ASSY	HALTEKNOPFZUS.	
21	V46243	0	SOLENOIDIKAAPELI	SOLENOID CABLE	SOLENOIDKABEL	#1
22	V46244	0	SOLENOIDIKAAPELI	SOLENOID CABLE	SOLENOIDKABEL	#2
23			ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	
24	V46242	1	ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	
25	V45059	0	ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	
26	V45060	0	ANTURIKAAPELI	SENSOR CABLE	SENSORKABEL	

V46663 Sähkökaavio ... Electrical chart ... Schaltbild

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
27	V46239	0	KAAPELI	CABLE	KABEL	COM2, #1
28	V46240	0	KAAPELI	CABLE	KABEL	COM2, #2
29	V45055	0	KAAPELI	CABLE	KABEL	
30	V46238	0	OHJAUSKAAPELI	CONTROL CABLE	HILFSKABEL	NOZZLE CUP
31	V46237	0	MOOTTORIKAAPELI	MOTOR CABLE	MOTORKABEL	NOZZLE CUP
32.1			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#1, STIRRING
32.2			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#3, STIRRING
32.3			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#5, STIRRING
32.4			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#7, STIRRING
33.1			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#2, STIRRING
33.2			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#4, STIRRING
33.3			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#6, STIRRING
33.4			JOHTOSARJA	WIRE HARNESS	KABELSERIE	#8, STIRRING
34	V46543	0	MOOTTORIKAAPELI	MOTOR CABLE	MOTORKABEL	#1, GREEN
35	V46544	0	MOOTTORIKAAPELI	MOTOR CABLE	MOTORKABEL	#2, RED
36	V36012	0	RIVILIITIN	TERMINAL BLOCK	REIHENKLEMME	SSTL 1933515-7
37	V46541	0	HAARAKAAPELI	BRANCH CABLE	ABZWEIGKABEL	+24V
38	V46542	0	HAARAKAAPELI	BRANCH CABLE	ABZWEIGKABEL	0V (+24V)
39	V46540	0	KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	#3 +24V
40	V45092	0	KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	#1 0 V (+24 V)
41	V46539	0	KÄYTTÖJÄNNITEKAAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	#2 0V
42	V45093	0	MAADOITUSKAAPELI	GROUND CABLE	ERDUNGSKABEL	+24 V
43			SUOJAMAADOITUSKAAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	+24 V
44			JOHTOSARJASETTI	WIRE HARNESS SET	KABELSERIESET	
45	V44748	0	KYTKIMELLINEN PISTOKE	POWER ENTRY MODULE	STECKER MIT SCHALTER	
46	V41201	0	VERKKOLIITIN	MAINS CONNECTOR	NETZANSCHLUSS	SCHURTER 4752

V46663 Sähkökaavio ... Electrical chart ... Schaltbild

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
47	V43933	1	KYTKIN (SÄHK)	SWITCH	SCHALTER	ARCOLECTRIC C1350VQ0/1BLK BLACK
	V43933	0	KYTKIN (SÄHK)	SWITCH	SCHALTER	149-286, GREEN
48	V45061	0	SARJALIIKENNEKAPELI	SERIAL LINE CABEL	RS-KABEL	RS232
49			SYÖTTÖJÄNNITEKAPELI	MAIN POWER CABLE	NETZKABEL	230 V
50			SYÖTTÖJÄNNITEKAPELI	MAIN POWER CABLE	NETZKABEL	QUAD BLOCK
51			KÄYTTÖJÄNNITEKAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	2 24 V
52			KÄYTTÖJÄNNITEKAPELI	MACHINE POWER CABLE	BETRIEBSKABEL	1 24 V
53			SUOJAMAADOITUSKAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	QUAD BLOCK
54			SUOJAMAADOITUSKAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	
55			SUOJAMAADOITUSKAPELI	PE-GROUND CABLE	SCHUTZLEITUNG	

VARUSTEET EQUIPMENT AUSRÜSTUNG

No	Koodi Code Code	Ver	Osa	Part	Part	Spesifikaatio (sivu) Specification (page) Spezifikation (Seite)
	V36509	0	VERKKOKAAPELI	MAINS CABLE	NETZKABEL	MSK 3x0.75 2.5M
	V38426	0	SULAKE	FUSE	SICHERUNG	F 10 A 5x20 MM
	V43950	0	SARJALIIKENNEKAAPELI	SERIAL LINE CABLE	RS-KABEL	9 PIN, DEL-37
	V36709	0	JATKOKAAPELI NÄYTÖLLE	EXTENSION CABLE FOR MONITOR	VERLÄNGERUNGSKABEL FÜR MONITOR	L=3M
	V45044	0	JATKOKAAPELI NÄPPÄIMISTÖLLE/HIIRELLE	EXTENSION CABLE FOR KEYBOARD / MOUSE	VERLÄNGERUNGSKABEL FÜR TASTATUR / MAUS	L=3M, USB
	V40060	0	LAITEVIRTAKAAPELI Lisälaitteelle virta koneesta	MAINS CABLE Power from machine to accessory	NETZKABEL Strom aus der Maschine für das Zusatzgerät	L=1M
	V43609	1	TULPANPAININ	PLUG PRESS	DRÜCKERGESTELL	D 50 MM
	V41125	0	TULPPALAATIKKO 450 KPL / LTK	PLUG BOX 450 PCS / BOX	STOPFENBOX 450 STK / BOX	50 MM
	HV3854		TARRARULLA 130 TARRAA / RULLA	LABEL ROLL 130 LABELS / ROLL	ETIKETTENROLLE 130 ETIKETTEN / ROLLE	28x89 MM
	HV3855		TARRARULLA 260 TARRAA / RULLA	LABEL ROLL 260 LABELS / ROLL	ETIKETTENROLLE 260 ETIKETTEN / ROLLE	36x89 MM
	HV3856		TARRARULLA 220 TARRAA / RULLA	LABEL ROLL 220 LABELS / ROLL	ETIKETTENROLLE 220 ETIKETTEN / ROLLE	54x101 MM
	V45345	0	ASENNUSTYÖKALU	FITTER'S TOOL	INSTALLATIONSWERKZEUG	FOR JOHN GUEST FITTINGS

RETURNABLE MATERIAL



Use this form when you send spare parts back to CPS Color Equipment Oy.

Machine	Serial number	Part description	Part code

<input type="checkbox"/>	Only return	<input type="checkbox"/>	Send new	<input type="checkbox"/>	Repair
<input type="checkbox"/>	Only return	<input type="checkbox"/>	Send new	<input type="checkbox"/>	Repair
<input type="checkbox"/>	Only return	<input type="checkbox"/>	Send new	<input type="checkbox"/>	Repair
<input type="checkbox"/>	Only return	<input type="checkbox"/>	Send new	<input type="checkbox"/>	Repair
<input type="checkbox"/>	Only return	<input type="checkbox"/>	Send new	<input type="checkbox"/>	Repair
<input type="checkbox"/>	Only return	<input type="checkbox"/>	Send new	<input type="checkbox"/>	Repair

Name _____

Company _____

Date _____

Please send this form before delivery by fax to CPS Color Equipment Oy.



SPARE PARTS ORDER

Invoice to

Delivery address

Delivery terms: FCA ULVILA

Method of dispatch:

By courier service

By air freight

By sea freight

By truck

By airmail

Other _____

Code	Part	Quantity	Unit price	Total

Name _____
Company _____
Date _____

