



MEDICAL INSTRUMENTS, PRODUCTION + TRADING

Web: www.teco-gmbh.com
Email: info@teco-gmbh.com

**DIESELSTRASSE 1
GMBHD-84088 NEUFAHRN NB**

TEL: #49 8773 910010
FAX: #49 8773 910011

Problems with power on Coatron A

General

Following power is required

- +24V: robotic system and printer
- +5V: microcontroller + display
- 15V: optics
- +15V: heating+cooling+ display backlight

If one of these components shows no function, than the root is mostly a power problem.

Troubleshooting

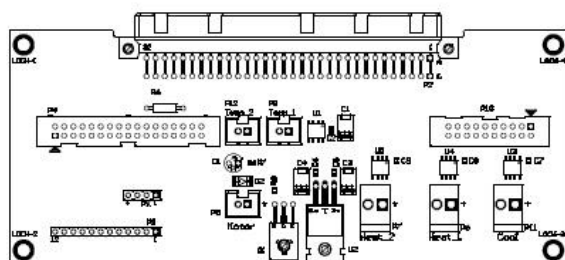
- (1) Check power on input cable P1 for correct voltage. Unplug power during measurement if system has shortcuts or defect components. If the power is out of range ($\pm 3\%$ from target), then replace the power supply.

Tip: Clean the fan of power supply from dust at least once year to ensure long lifetime. Use brush and compressed air dose to clean.

- (2) Check all fuses and replace if required.

If replaced fuse blows again, then identify to the source by unplug the components steps by step

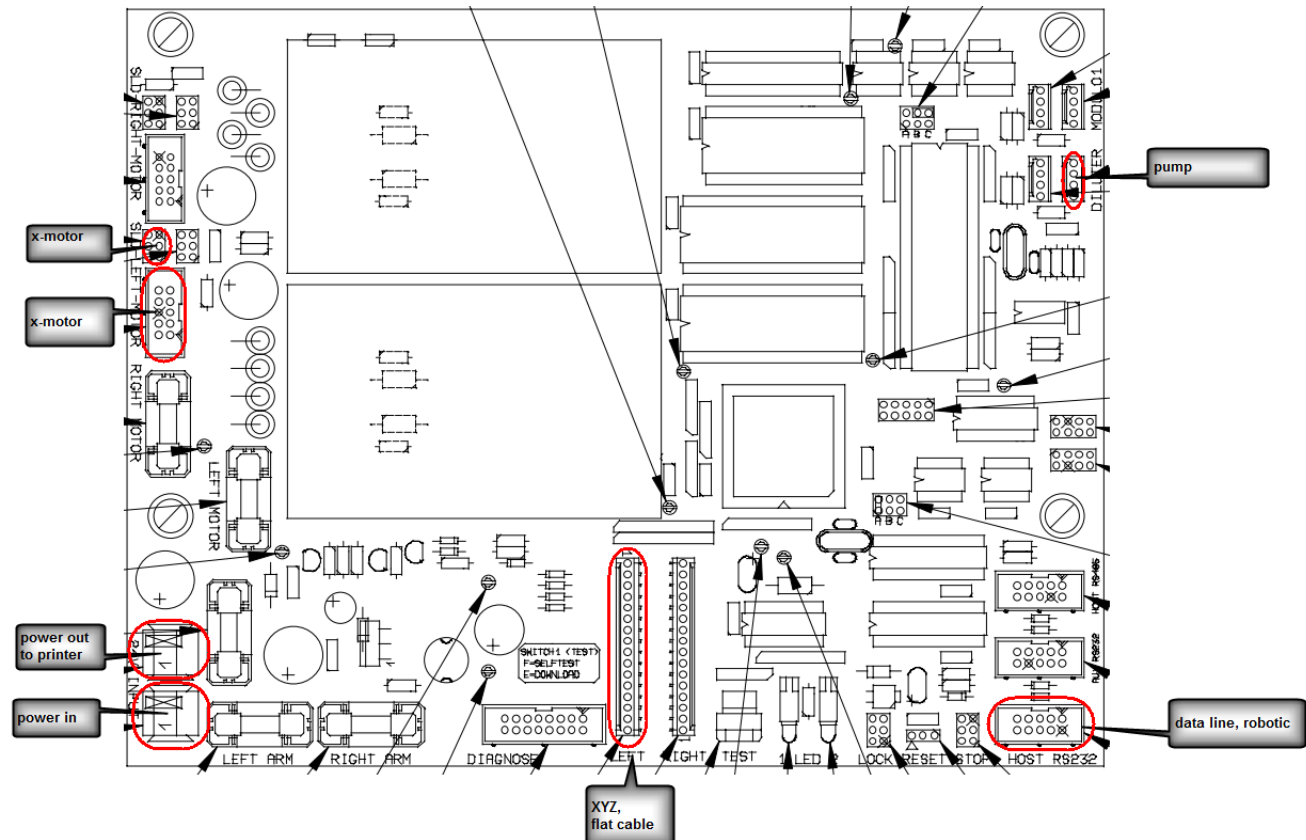
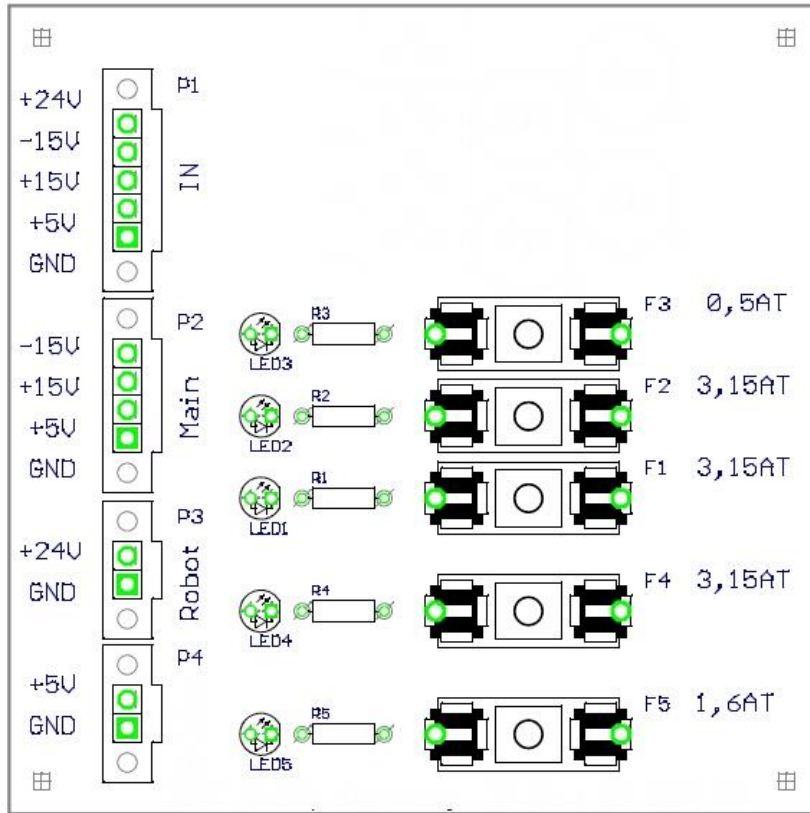
- a. Unplug from fuse board
 - P3 robotic system
 - P4 peltier element
- b. Unplug from adapterboard



- P6 heating of reagent block
- P7 heating of optic block
- P11 cooling of reagent block

- (3) Don't use power extender cables like 3-way with On/Off function. They cause very often power problems.
- (4) Small UPS (500VA) with surge protection may help in case of power fluctuation

Fuses on system:





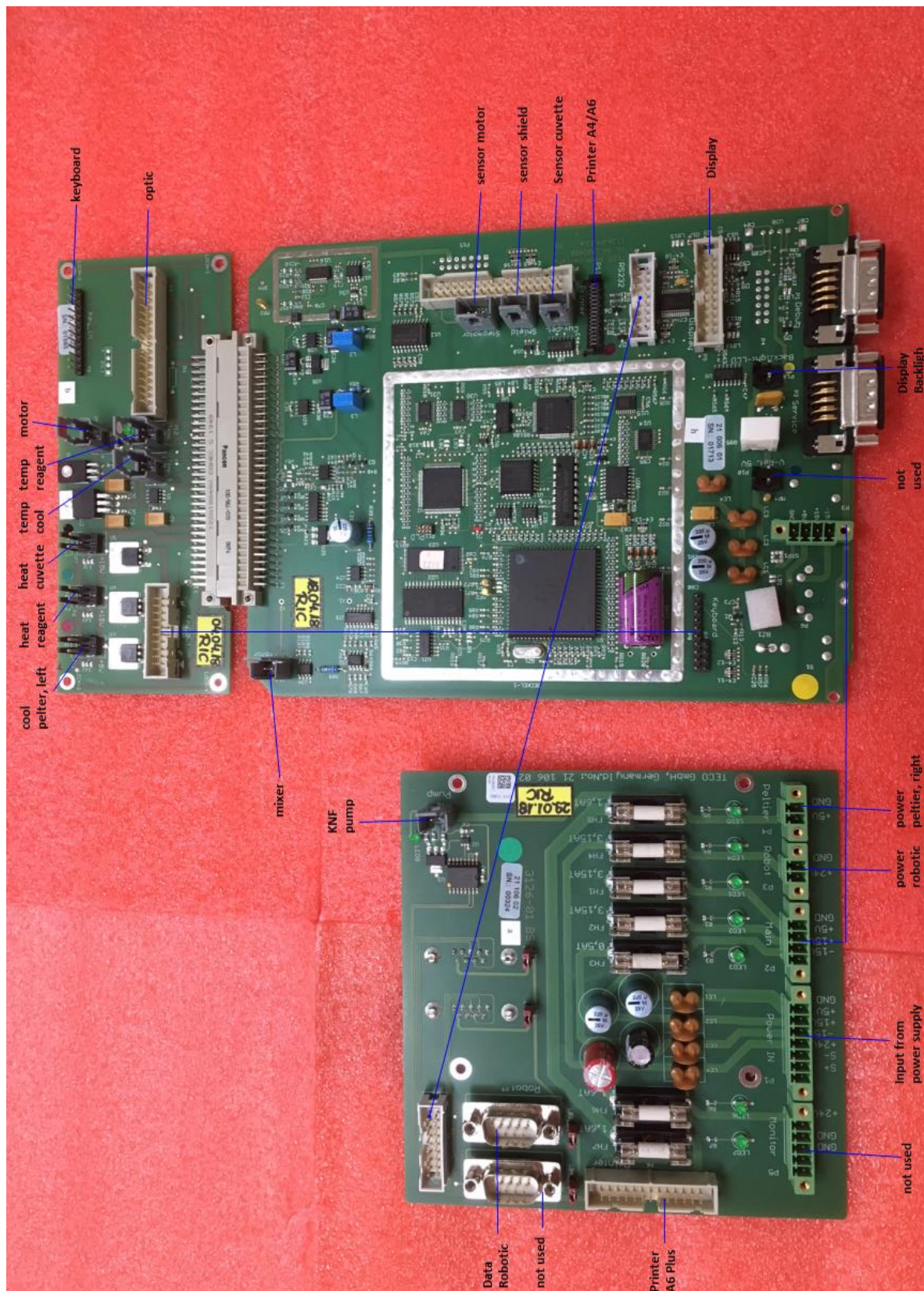
**MEDICAL INSTRUMENTS,
PRODUCTION + TRADING GMBH**

Web: www.teco-gmbh.com
Email: info@teco-gmbh.com

**DIESELSTRASSE 1
GMBH-84088 NEUFAHRN NB**

TEL: #49 8773 910010
FAX: #49 8773 910011

Overview of components:





Replacement of power supply



Replace power supply old version (before 2017)

Required spare parts:

power supply REF 23 918 00
power board REF 21 106 02
bracket 21 143 00

Replacement instructions

- Open casing
- Disconnect cabling
- Remove button casing
- Remove power supply
- Install bracket
- Reassemble button casing
- Install new power supply
- Replace new power board
- Connect cabling



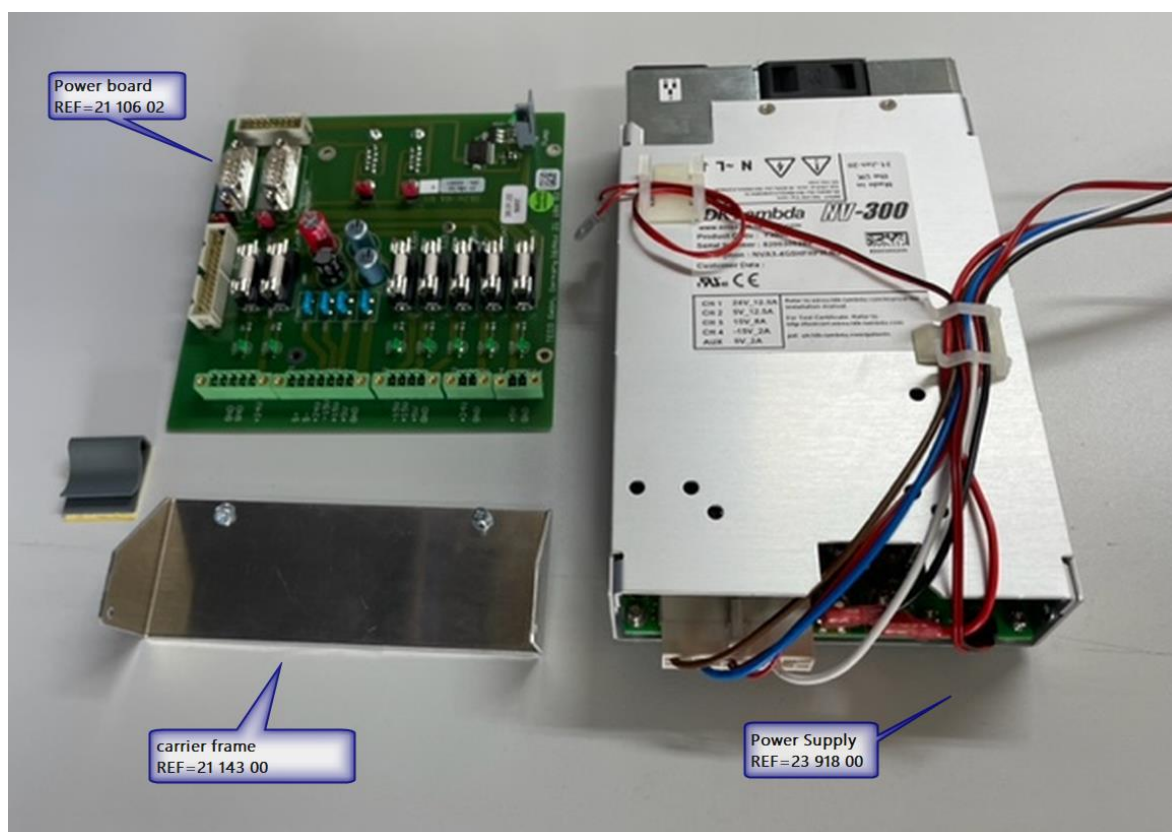
Replace power supply new version (since 2017)

Required spare parts:

power supply REF 23 918 00

Replacement instructions

- Open casing
- Disconnect cabling
- Replace power supply
- Connect cabling





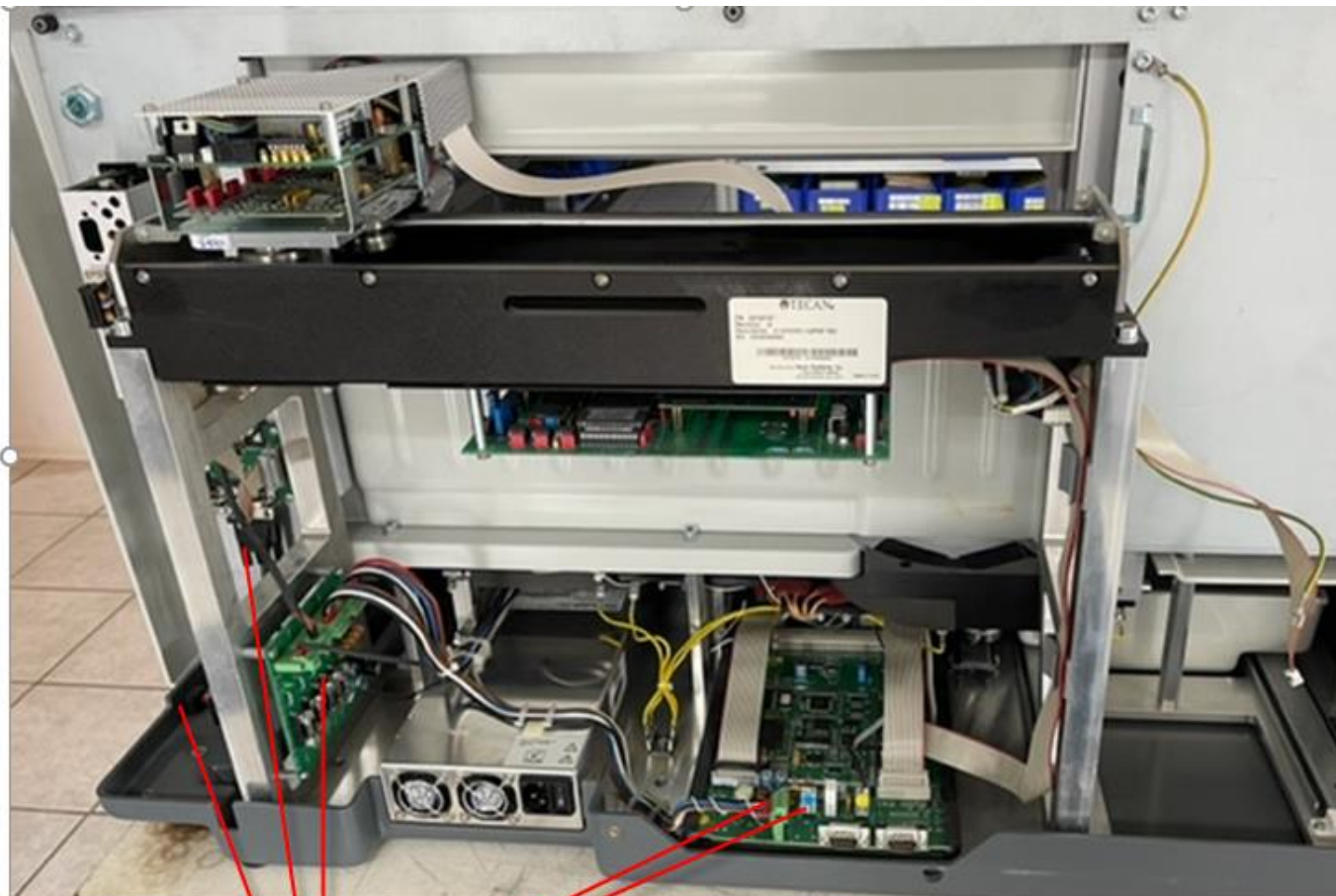
**MEDICAL INSTRUMENTS,
PRODUCTION + TRADING GMBHD-84088 NEUFAHRN NB**

Web: www.teco-gmbh.com
Email: info@teco-gmbh.com

TEL: #49 8773 910010
FAX: #49 8773 910011

Open system and disconnect cabling

Attention: Skip to



1. unplug all cable connections from power board
2. remove power board



**MEDICAL INSTRUMENTS,
PRODUCTION + TRADING GMBHD-84088 NEUFAHRN NB**

Web: www.teco-gmbh.com
Email: info@teco-gmbh.com

TEL: #49 8773 910010
FAX: #49 8773 910011

Remove button-casing

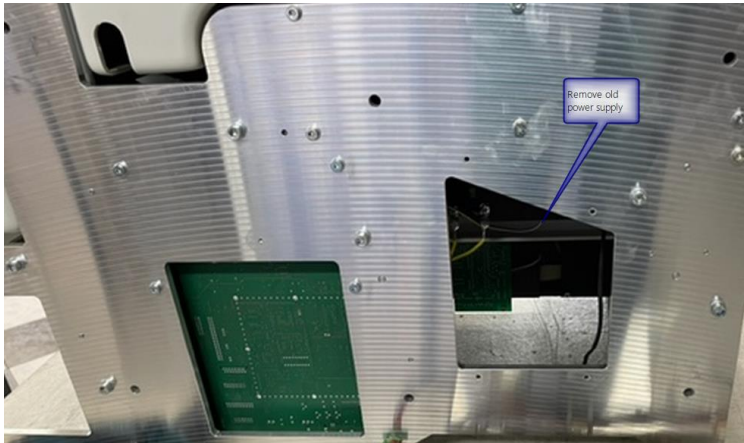


1. Flip system to access button casing. Apply patient racks as distance sockets.
2. Remove button casing



Replace power supply

- Remove power supply
- Install bracket
- Reassemble the button casing
- Mount new power supply
- Mount new power board



mount new power board and power supply



**MEDICAL INSTRUMENTS,
PRODUCTION + TRADING GMBH**

Web: www.teco-gmbh.com
Email: info@teco-gmbh.com

**DIESELSTRASSE 1
84088 NEUFAHRN NB**

TEL: #49 8773 910010
FAX: #49 8773 910011

Connect cabling





MEDICAL INSTRUMENTS, PRODUCTION + TRADING GMBH

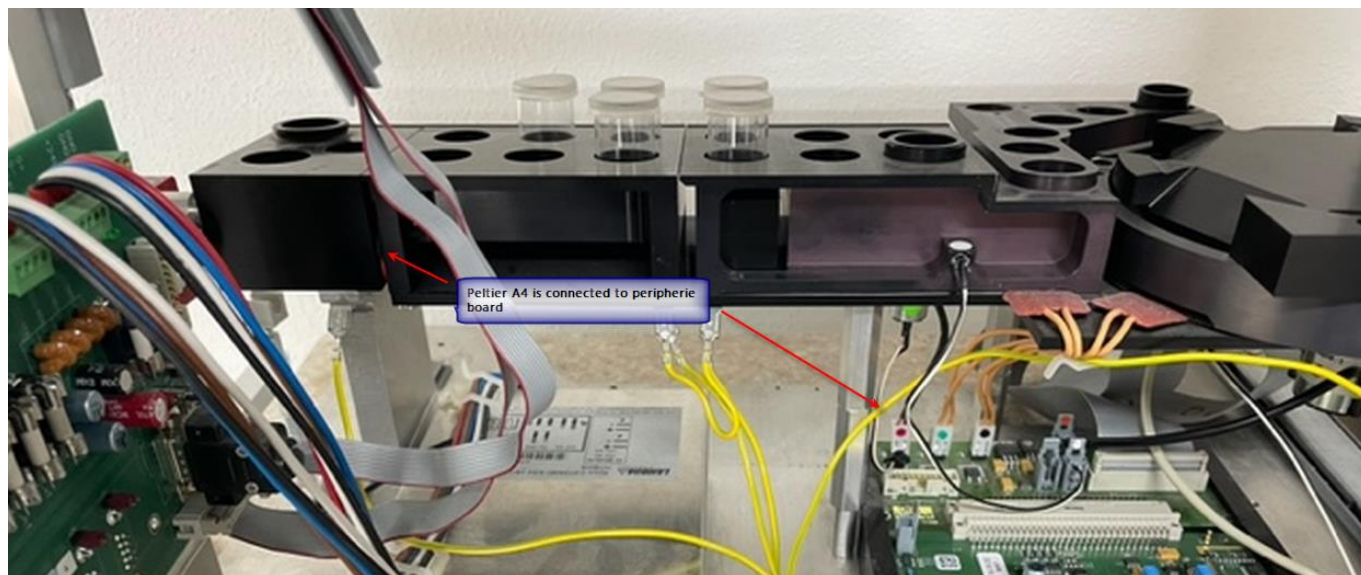
Web: www.teco-gmbh.com
Email: info@teco-gmbh.com

**DIESELSTRASSE 1
GMBH-84088 NEUFAHRN NB**

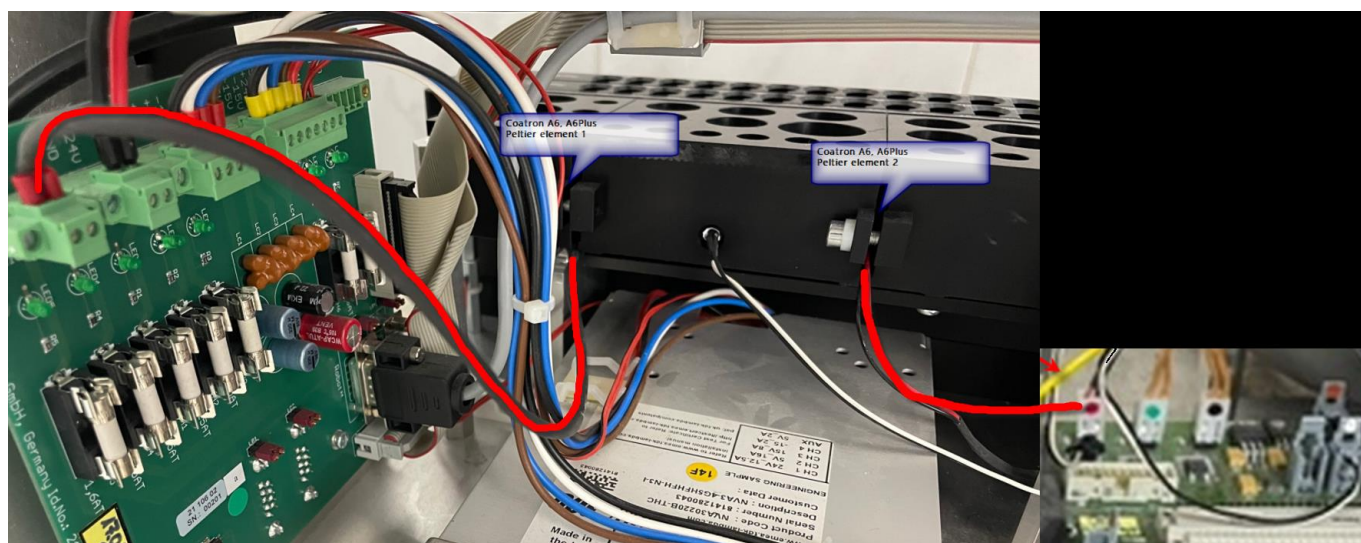
TEL: #49 8773 910010
FAX: #49 8773 910011

Connecting peltier elements

A peltier element is responsible for cooling of reagent block. The Coatron A6 and A6 Plus have two peltiers, while the Coatron 4 has only one.



Coatron-A4



Coatron-A6 + Coatron A6Plus

13.3.2023