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**DIESELSTRASSE 1
D-84088 NEUFABRN NB**
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Malfunction: Defect optic

Spareparts:

- 21 006 01 mainboard A4 / A6 / A6 Plus
- 21 817 00 optic block A4, complete
- 21 817 06 optic block A6, complete

Description

Optic values out of range



Video instructions:



https://www.teco-medical.com/downloads.html?group=Coatron_A&category=Videos&search=

Causes

Case-1: temperature T1 not correct (31000 – 33000) → defect mainboard

Case-2: temperature T1 correct (31000 – 33000) → working mainboard

- OFF signals incorrect (100 – 400) → replace receiver board
- OFF signals correct (100 – 400) → working receiver board

A single ON-signal is low (< 9000)

- LED defect
- optical channel blocked by liquid or particles

All ON-signals are low (< 9000), then

- mainboard LB17 bridge is not set correct
- transmission board resistance not 10 Ohm



Cause: Wrong cuvette adjustment



Cause: Wrong optic block setting

Default setting for LED brightness
A4: R=10 Ohm A6: R=24 Ohm

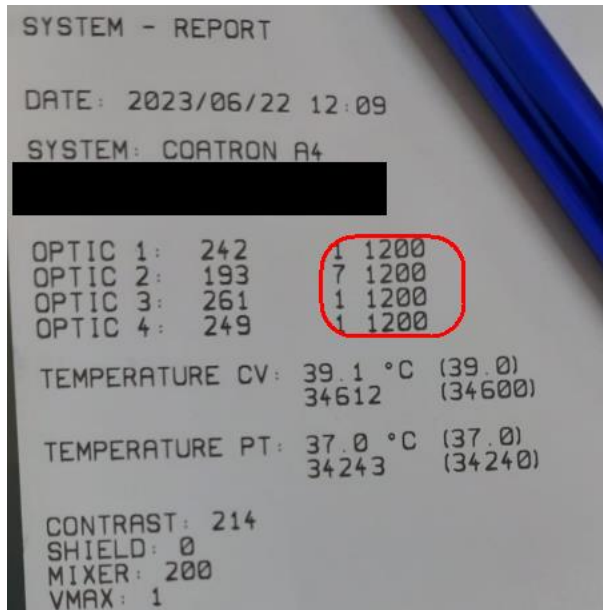


Cause: Wrong mainboard setting

LB17 is used to configure mainboard to 4 or 6 channel optic



Default setting for amplification factor
A4: bridge 1-2 A6: bridge 2-3

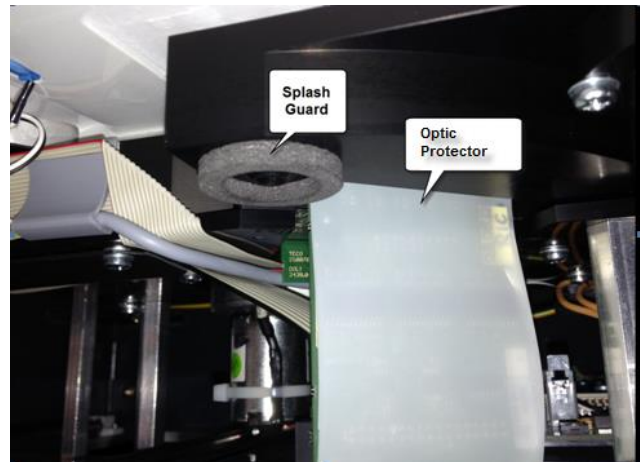
**Cause: Defect receiver board**

The system report shows:

- correct OFF signals= mainboard OK
- correct temperature=mainboard OK
- All ON signal < 1000 = receiver defect

Reason:

Splashes during cleaning and rinsing can cause shortcuts and corrosion on receiver boards. Make sure, that splash guard, protector and new clean position is installed.

**Trouble Shooting:**

- Replace optic block, complete
- Install splashguard und protector to prevent splashes. Both parts are already installed on the sparepart "optic block"



New clean position: REF= 21 034 50 (a)

Trouble Shooting:

- x Install new clean position to protect from splashes
- x Install new firmware, otherwise needle will crash with new clean position.