

TI_2126: New additional I/O board A13 for movement management



iVario 2-XS / iVario Pro







28/09/2021

Reason:

In order to manage the current challenges with the supply chain, the I/O board (A10) was updated to a new hardware version from 27 September 2021:

The old A10 board with components for the movement management was replaced with a new simplified A10 board without components for movement management. To enable the functions to continue to be used, the movement management was moved to an additional board A13.

The A13 board is connected to the new I/O board A10 via the BUS.

To enable these changes to be implemented, a new software version has been created:

Compatible from version **LMX-2.5.15**

The A13 board is responsible for the movement management:

Power supply of the motors, pan, lid, drain valve and lid lock.

The feedbacks of these motors are also connected to this board (digital values for pan/lid: PT1/PT2 and position switches of the drain valve and lid locking system).

Affected units (unit size and unit type):

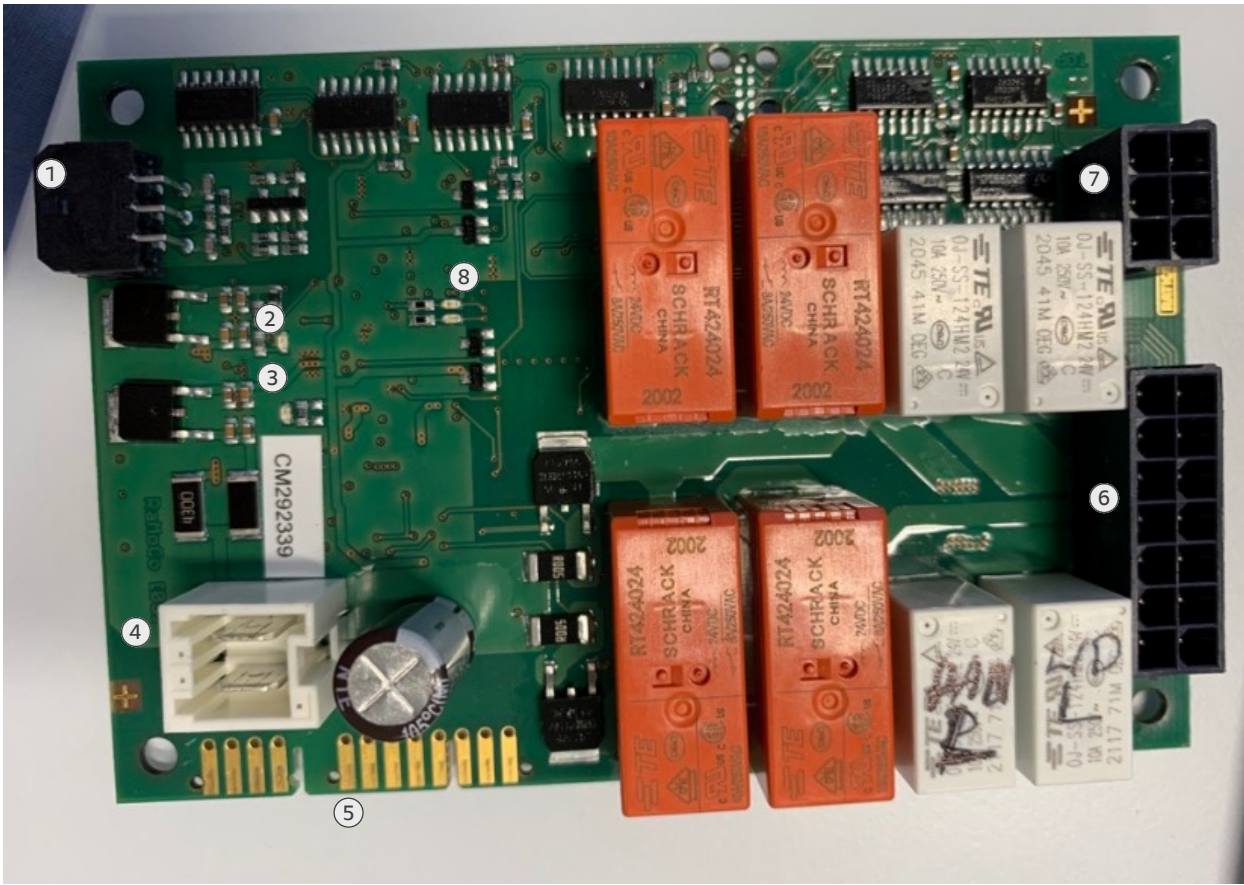
- All iVario Pro
- iVario 2-XS

Affected components

#	Component	Unit
87.01.860S	I/O board with power supply	All iVario Pro iVario 2-XS
42.00.413P	I/O movement PCB A13	All iVario Pro iVario 2-XS

Repair/modification:

Structure of the A13 I/O board:

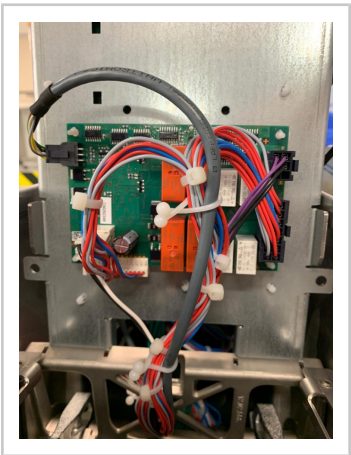


1	X1 BUS connection to the A10 I/O board
2	LED: 3.3V OK (control unit)
3	LED: 5V OK (PT1/PT2)
4	X5: 24V power supply (T5)
5	X4 / 142: Drain valve and lid lock system power supply and return
6	X3: Power supply for pan and lid motor
7	X141: Return of the pan and lid motor
8	LED flashes: Green / red Communication: OK / not OK

Location in the unit

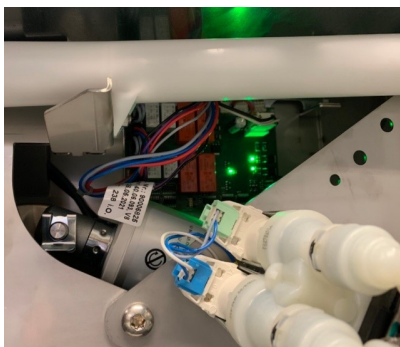
iVario 2-XS and 2-S

A13 I/O board is installed behind the A10 board



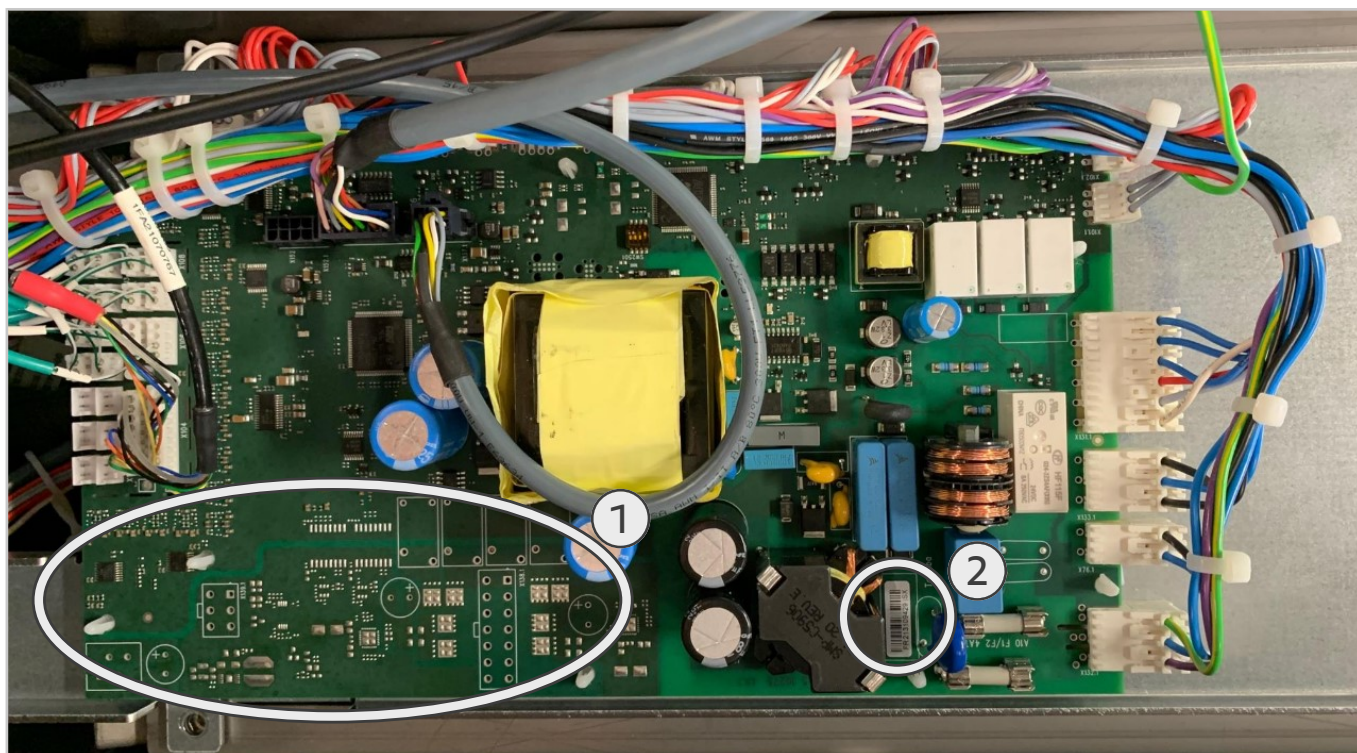
iVario L and XL

The A13 I/O board is installed below the A10 I/O board behind the solenoid valves.



Hardware changes

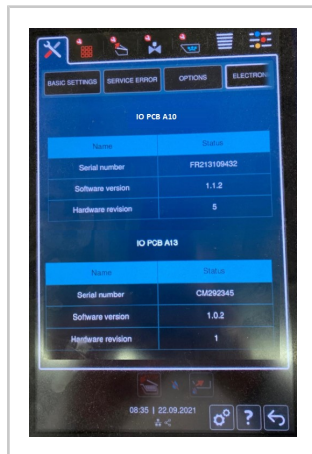
Because the movement management was removed from the original I/O board (A10), a new hardware version has been created: Hardware version 5. The serial numbers of these boards without movement management end with "SX".



- | | |
|---|-----------------------------|
| 1 | Missing movement components |
| 2 | Serial number ending "SX" |

Software changes

The software automatically checks whether the movement is controlled by A10 (hardware version 1 or 4 of A10) or by A13 (hardware version 5 of A10, serial number ends with SX). Details on I/O boards can be found on the service level under General/Electronics.



Error message:

A new error message has been implemented for communication problems with A13 I/O boards:
0_960_40

Service case:

To minimize the number of individual parts, only A10 I/O boards with movement control (hardware revision 4, serial number not ending with SX) are available. This board fits in all units.

- If an A10 I/O board with hardware revision 5 (serial number ending with SX) is faulty, both the A10 and the A13 board must be removed from the unit and replaced with a A10 board with integrated movement control (hardware revision 4, serial number not ending with SX).
- If an A13 I/O board is faulty, only the A13 must be replaced. (Service part number: 42.00.409 P)