Instructions

Removing and installing the HMC 500 machine control panel

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1   General information

These installation instructions contain all the information necessary for removal and installation of an HMC 500 machine control panel.

Warning!
Electrostatic charge.
Touching the components can damage them.
The components must be placed on an ESD protected mat.

To dissipate the electrostatic charges, touch the earthed housing of the control unit.

When exchanging plug-in cards, do not touch either the components or the gold contacts.

Warning!
There is no warranty or liability for damage
-   **if the conversion is performed other than in accordance with these instructions or**
-   **is performed other than by authorised specialist staff.**

Attention!
Incorrect handling could lead to damage to the machine or health risks.

Turn off the machine (drives) before assembly work (disconnect all power).

Work may only be performed by qualified specialist staff according to the instructions and accident prevention regulations.
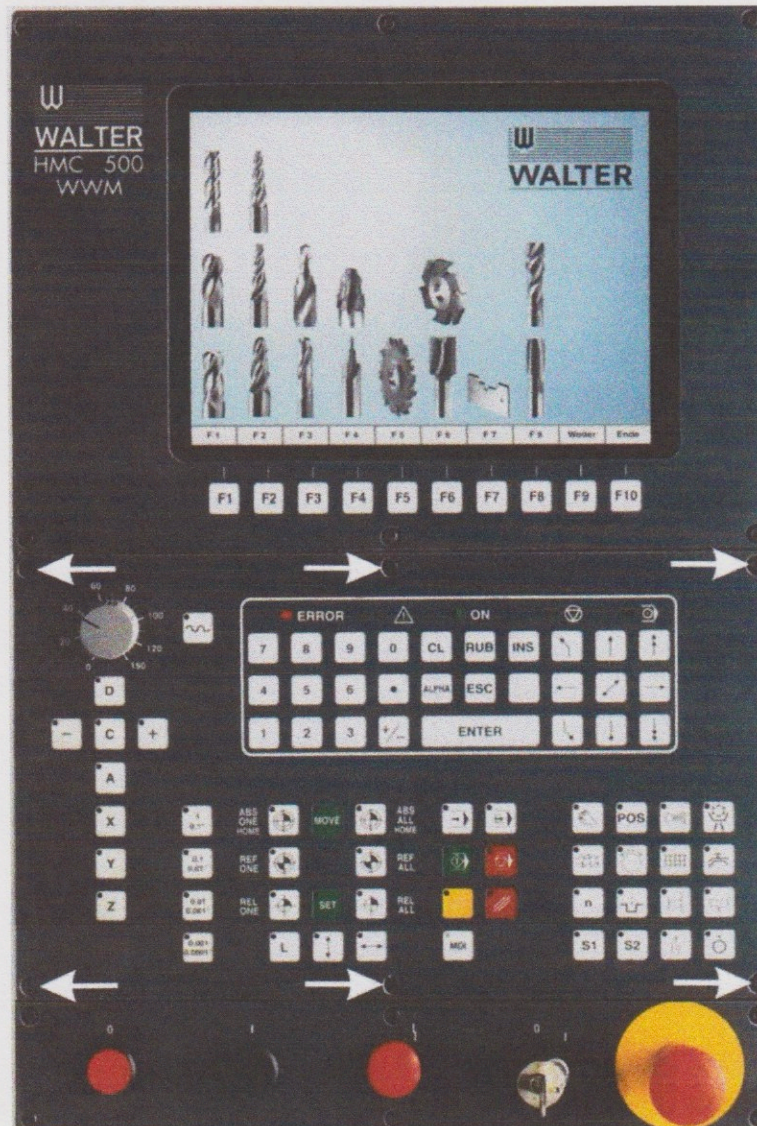

Important!
Dust and dirt.

Malfunctions are often caused by dusty, dirty or greasy contacts. Full functionality of the machine can only be guaranteed if all products are handled with the necessary level
of care.

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2 Removal and installation

2.1 Removing the control panel

1. Remove the 6 fastening screws.

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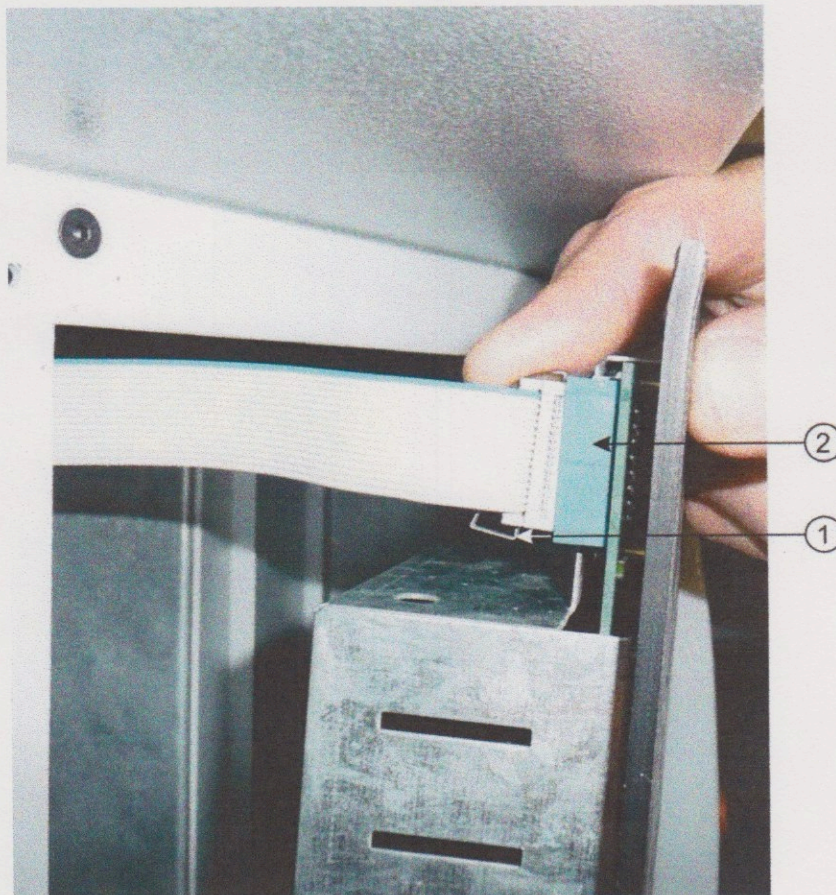**Warning!**
Electrostatic charge.
Touching the components can damage them.
The components must be placed on an ESD protected mat.

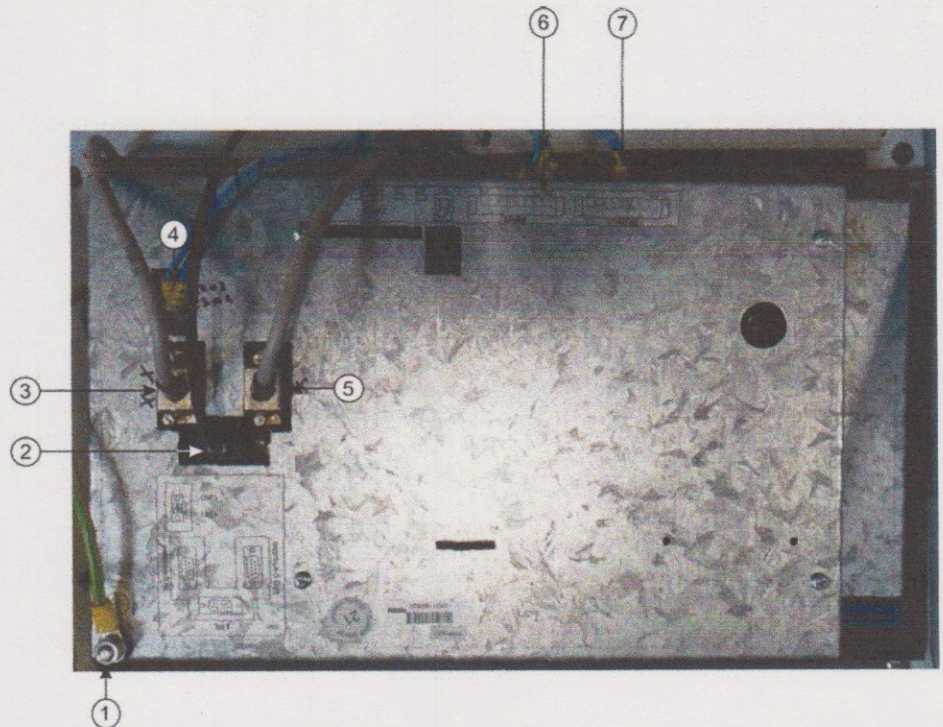To dissipate the electrostatic charges, touch the earthed housing
of the control unit.

When exchanging plug-in cards, do not touch either the
components or the gold contacts.

2. Slowly tilt the control panel forward.
3. Unfasten the holding clip on the connector (1)
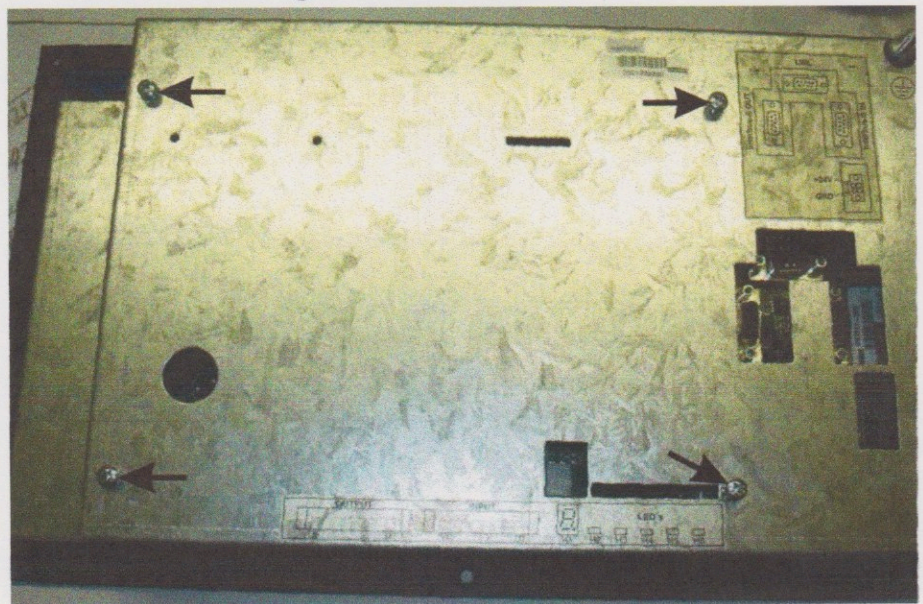4. Remove the ribbon cable (keys F1-F10) (2).

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Important!
Mark each cable to avoid mixing them up.

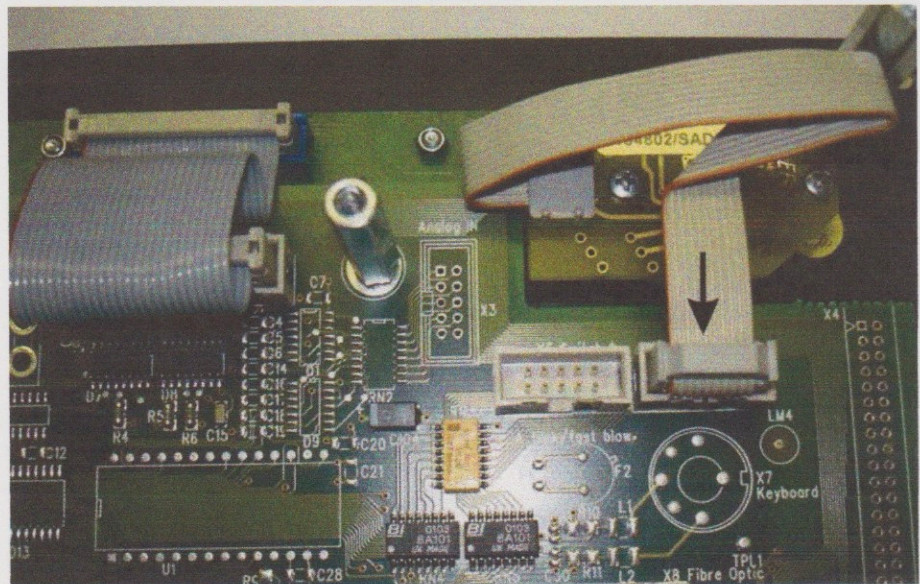**5.** Remove the plug connections / cables.
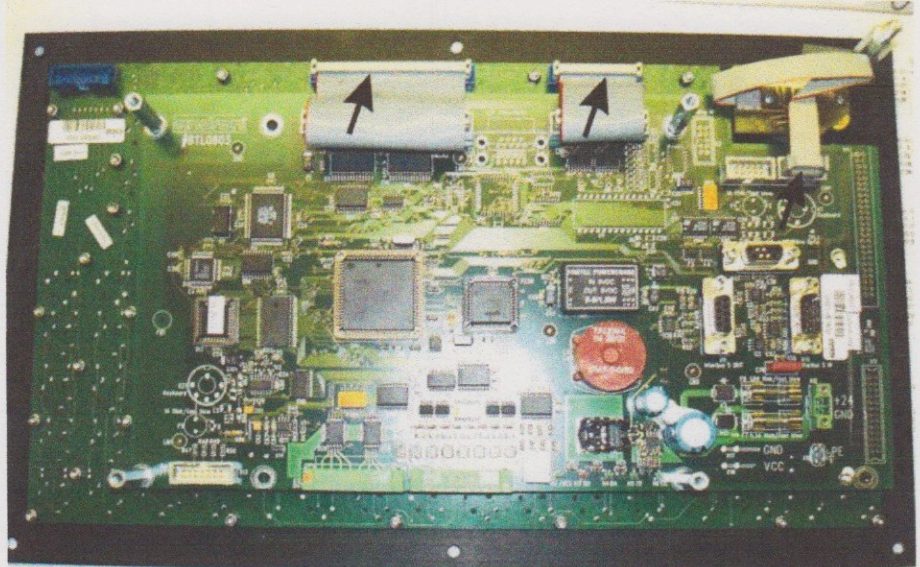

(1)   Earth cable (neutral wire)

(2)   Fibre-optic cable

(3)   Interbus - S IN

(4)   GND +24V

(5)   Interbus – S Out

(6)   Input – operating console

(7)   Output – operating console

6. Undo the fastening screws in the cover.

7. Disconnect the cable connections to the printed circuit board.

8. Undo the stud bolts and the fastening nuts.

9. Remove the printed circuit board.

2.2   Installing the control panel

1. Screw the printed circuit board onto the new control panel.

Attention!
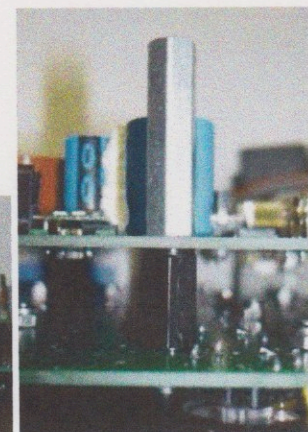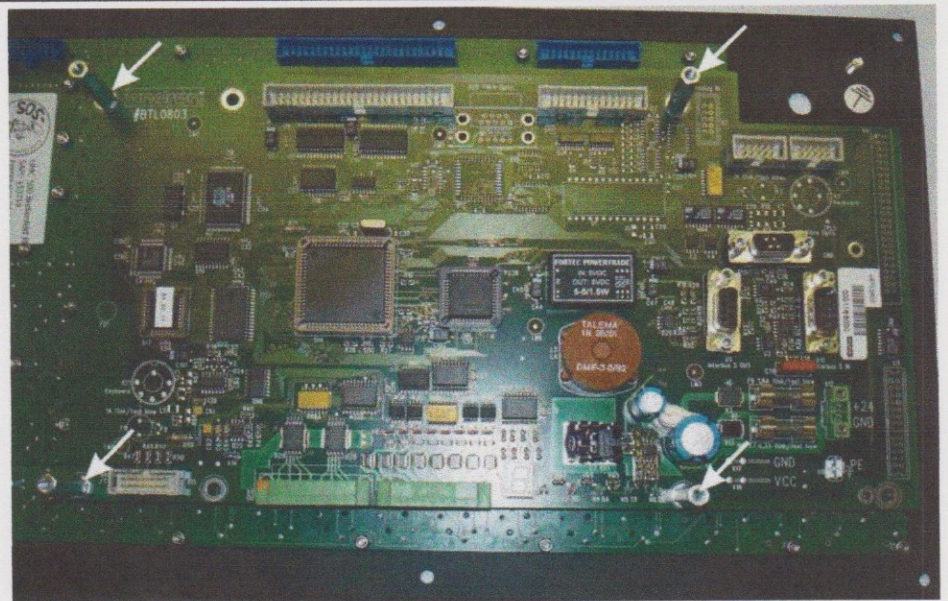**Printed circuit board failure and malfunctions.**
The operating console does not function.
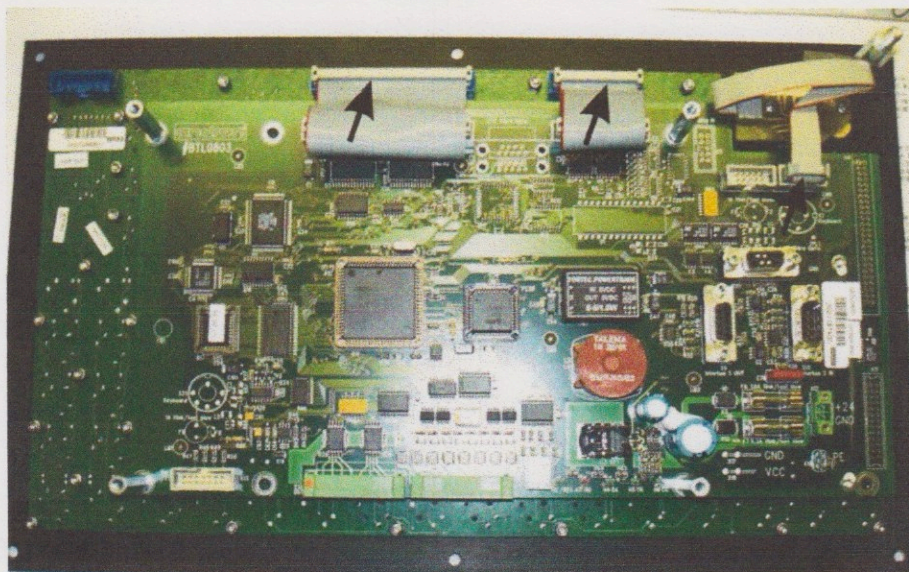**Carefully screw in the screw connections and stud bolts, taking care not to trap any cables.**
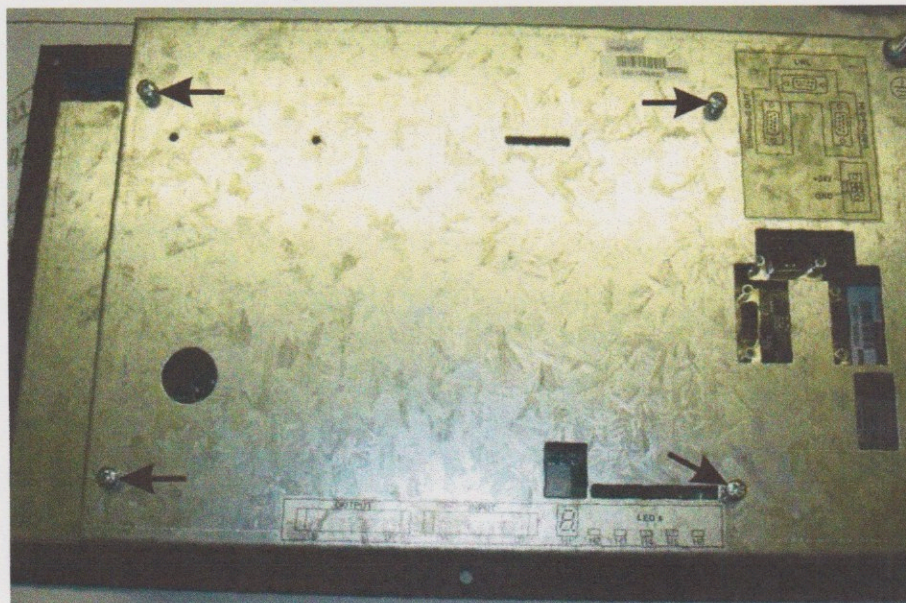
Important!
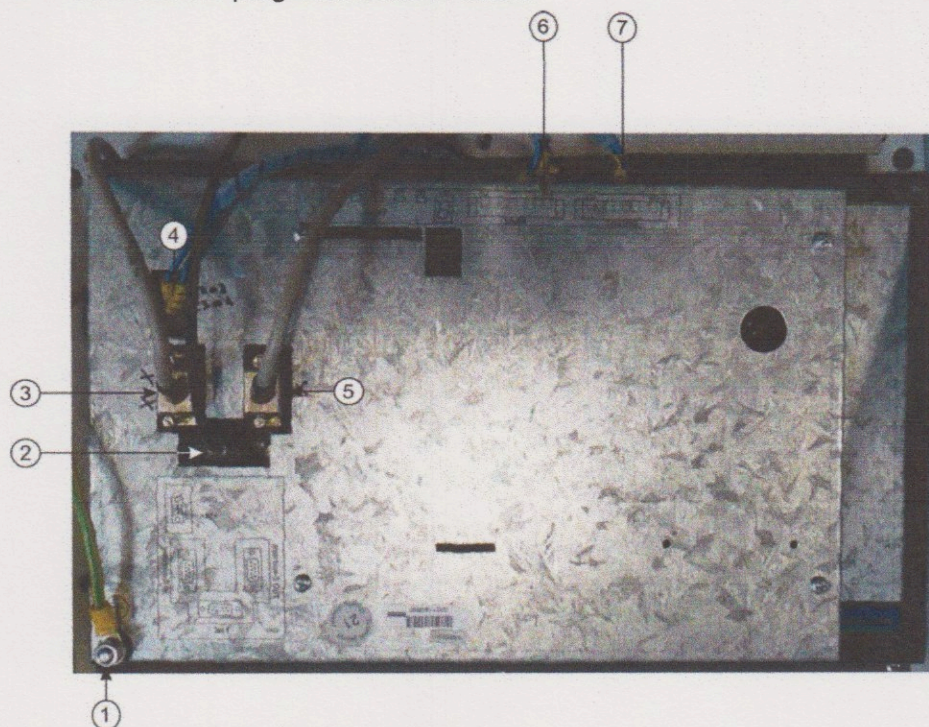**Fit the stud bolts as in the pictures below.**

2. Re-attach the cable connections.
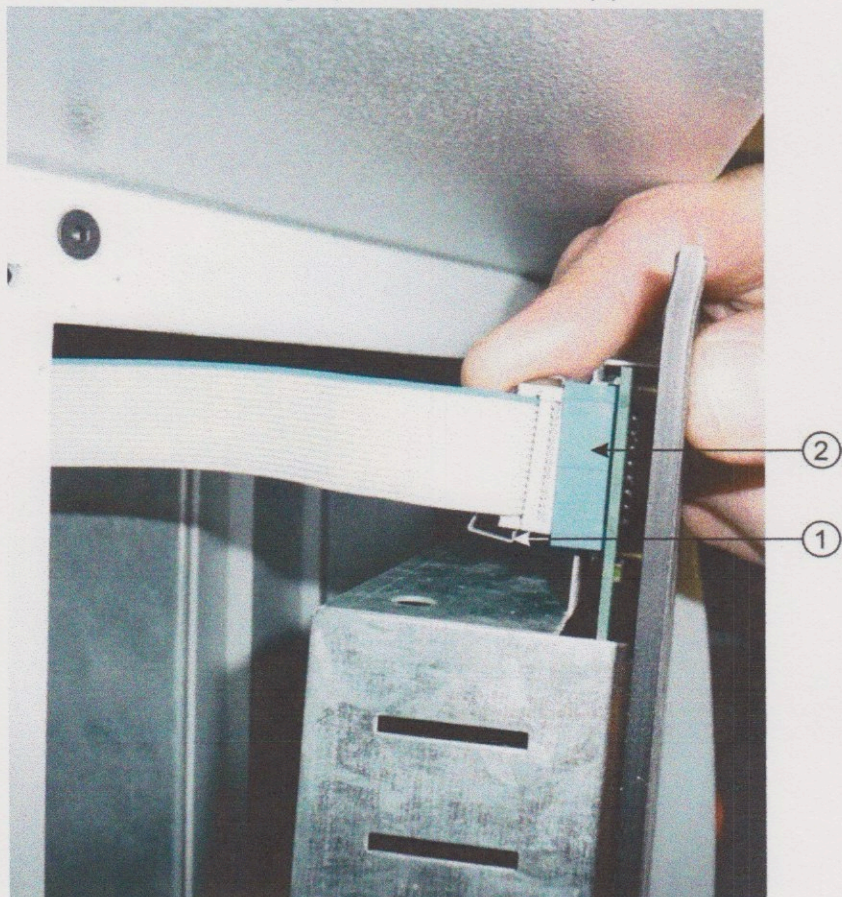

3. Mount the housing cover.

4. Connect the plug connection / cable.

(1)   Earth cable (neutral wire)
(2)   Fibre-optic cable
(3)   Interbus - S IN
(4)   GND +24V
(5)   Interbus – S Out
(6)   Input – operating console
(7)   Output – operating console

5. Plug in the ribbon cable (2).
6. Attach the holding clip on the connector (1).

7. Secure the control panel.