



Sidekick PC

Guide for AMI Interface Connectors

Version 1.3

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Introduction

This guide provides you with all the necessary information for establishing a correct connection between your PC and the electronic boards.

A good connection is an essential requirement to execute the diagnosis of the appliance and to perform the configuration of an electronic board.

Whenever communication problems between SidekickPC and the electronic board occur, you should always verify if the connection is correct.

The first part of this guide briefly illustrates the hardware elements of the Appliance Connection Kit and the correct sequence of the operations you should perform.

The second part of this guide shows the picture of many different electronic boards and the position of the communication connector that you should use for SidekickPC.

Appliance Connection Kit



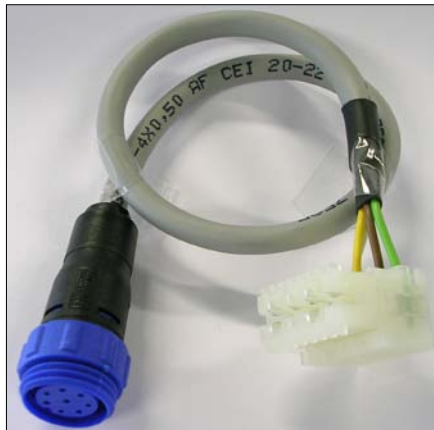
Appliance Mini Interface (AMI)



**USB cable
MM A-B**



**Dish washer
connector
RAST 2.5 DAAS**

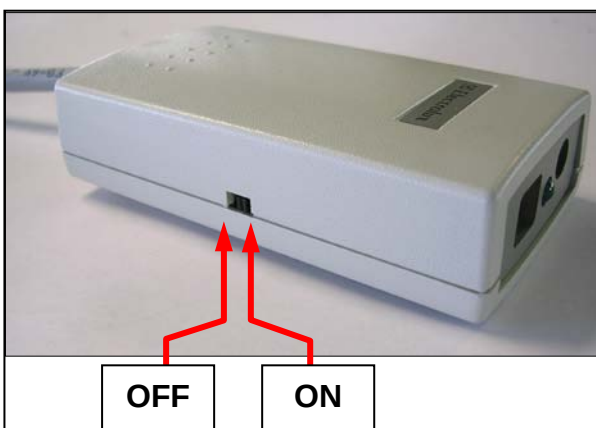
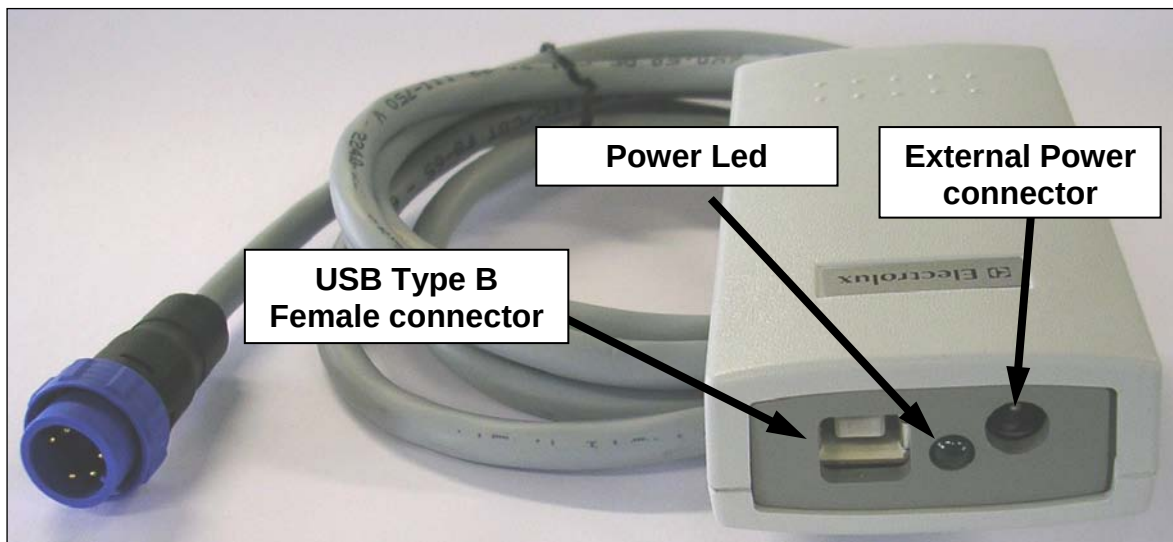


**Washing machine and
dryer connector
RAST 5 DAAS**



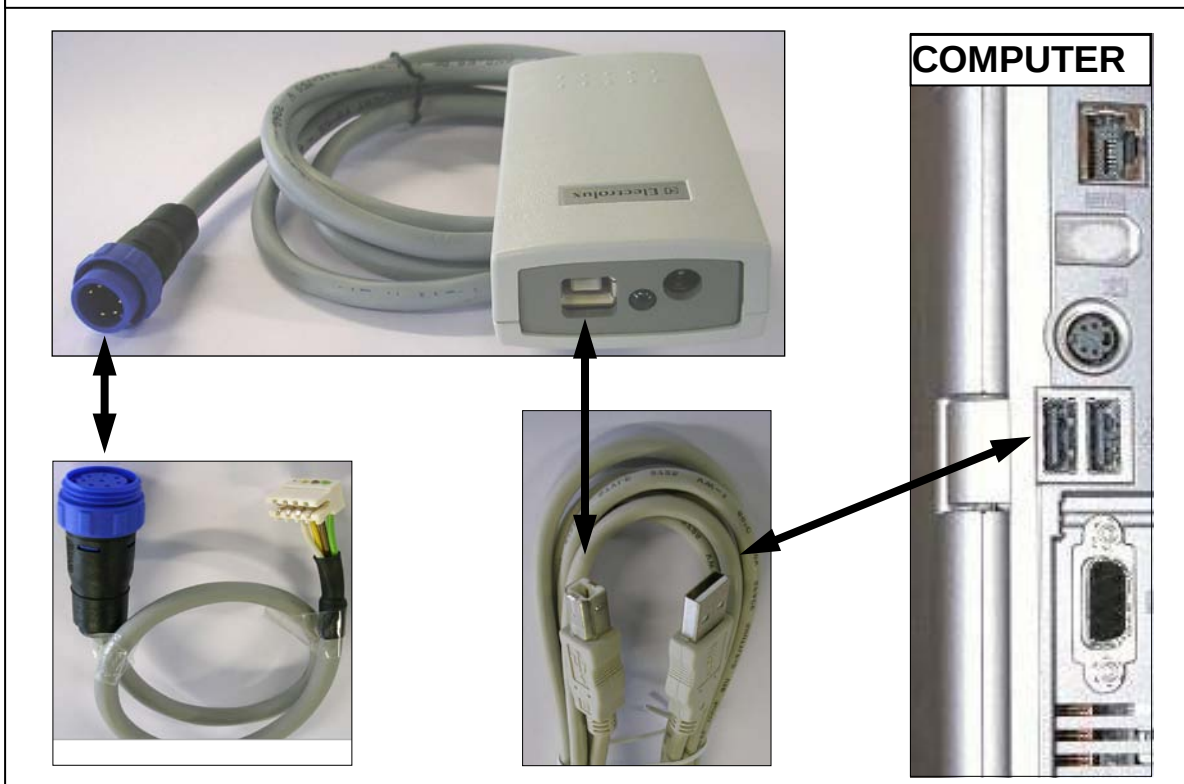
**ENV 06 connector
JST DAAS**

Please remember that the Appliance Mini Interface requires the use of a USB 2.0 fully-shielded High-Speed cable. Other types of USB cable do not guarantee a reliable connection.

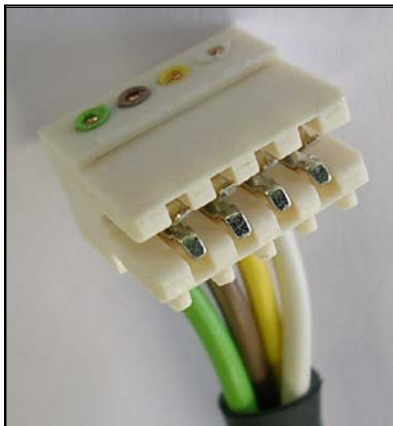


The switch on the side of the module interface interrupts the current supply to the electronic board. It is possible to set it always to the ON position. In the case that you permanently set this switch to the ON position, you should connect the USB cable to the AMI module only after turning on the appliance. At the same time, you should disconnect the USB cable before turning off the appliance.

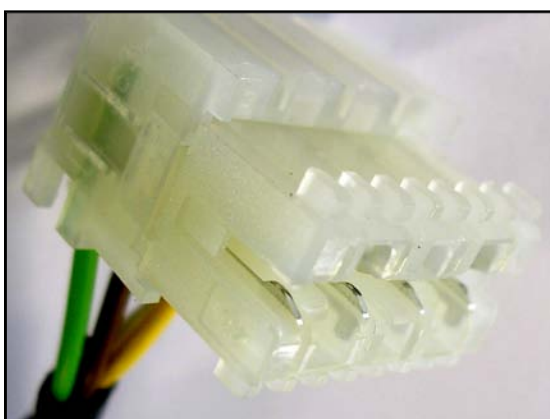
AMI Connections



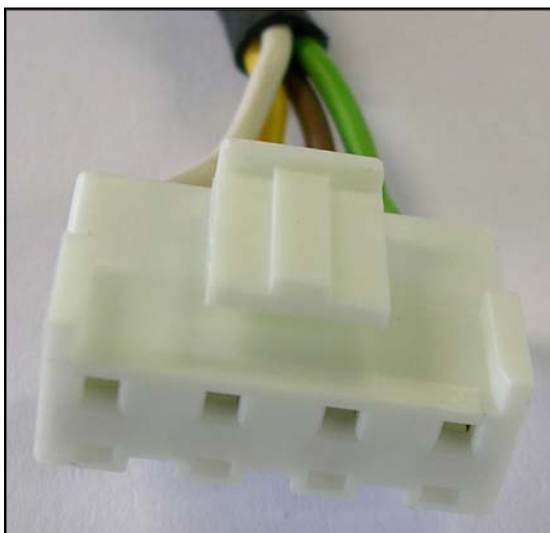
Terminal connectors details



**Dishwasher connector
RAST 2.5 DAAS**

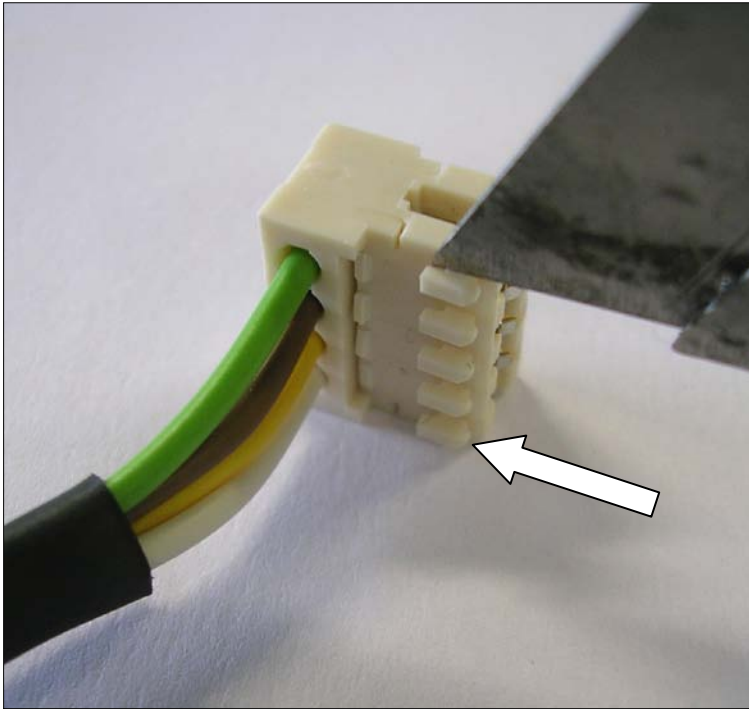


**Washing-machine and
dryer connector
RAST 5 DAAS**

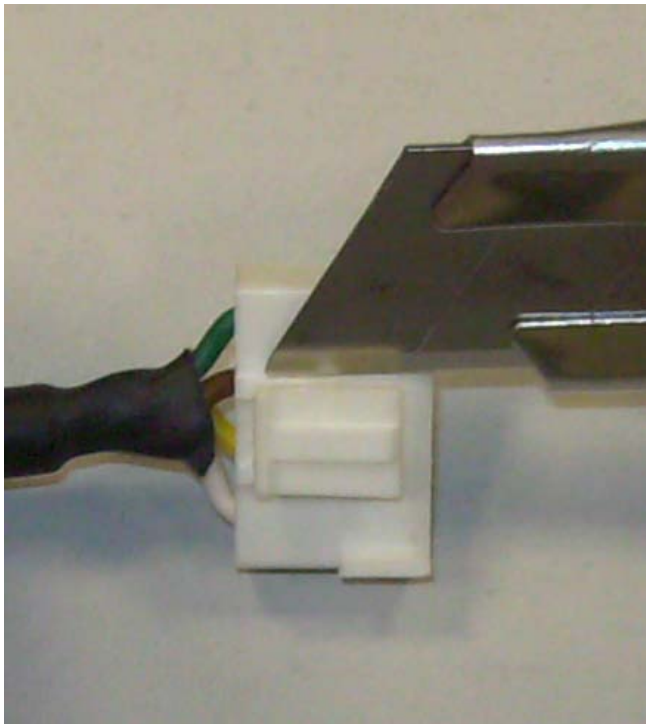


**ENV06 washing-
machine and dryer
connector
JST DAAS**

Important Notes



To use the **RAST 2.5 DAAS** connector for dishwashers, it is necessary to remove the first 4 keying ribs of the connector by means of a cutter, as shown in the picture. You should keep only the last keying rib indicated by the arrow.



To use the **JST DAAS** connector in some types of ENV06 fabric care boards, it is necessary to remove the holding clip with the use of a cutter as shown in the picture.

VERY IMPORTANT: correct sequence of operations

CONNECTING THE SPARE BOARD TO THE PC

In order to avoid the risk of electrical shock, only skilled personnel should use the system.

For security reasons you should NEVER power the electronic board from the mains supply (230 VAC) when it is not installed in the appliance.

The Appliance Mini Interface module is able to provide the power supply to the electronic board even when it is not connected to the mains supply. Please remember to set the Appliance Mini Interface switch, placed on the side of the module, to the ON position.

When the electronic board is powered up by the interface module, and not by the appliance (stand-alone board), it detects unexpected voltage and frequency conditions.

For this reason, it often stores the following alarm:

FREQUENCY OF APPLIANCE INCORRECT (EH1 or EB1 in Fabric Care appliances).

This situation is absolutely correct.

When you install a board in the appliance, that you have previously configured in stand-alone mode, you must remove the "Frequency of appliance incorrect" alarm from memory, if necessary. You can perform this operation either manually or by using Sidekick.

Before handling the electronic board, you should discharge your body from possible electrostatic charges, by touching one conductive object connected to earth.

WARNING: never touch both neither the board nor the adapter module interface connector during configuration program download and, in general, when the board supply is present.

These precautions reduce the risk of damaging the electronic board because of electrostatic discharges.

You should do the following steps to connect the PC to the spare board:

- 1) Disconnect the USB cable from the PC, if necessary.
- 2) Connect the adapter module interface cable both to the electronic board and to the AMI module.
- 3) Connect the USB cable both to the PC and to the AMI module.

DISCONNECTING THE SPARE BOARD FROM THE PC

Before handling the electronic board, you should discharge your body from possible electrostatic charges, by touching one conductive object connected to earth.

WARNING: never touch both neither the board nor the adapter module interface connector during configuration program download and, in general, when the board supply is present.

These precautions reduce the risk of damaging the electronic board because of electrostatic discharges.

You should do the following steps to disconnect the PC from the spare board:

- 1) Disconnect the USB cable from the PC.
- 2) Wait at least 5 seconds **BEFORE** touching the board or the interface cable to prevent Electro Static Discharge (ESD) damage risk.
- 3) Disconnect the adapter module interface cable from the board.

CONNECTING THE APPLIANCE TO THE PC

In order to avoid the risk of electrical shock, only skilled personnel should use the system.

The connection of the cable to the electronic board of the appliance can only occur when the appliance is powered off and, if possible, unplugged from the mains power supply.

Before handling the electronic board, you should discharge your body from possible electrostatic charges, by touching one conductive object connected to earth.

WARNING: never touch both neither the board nor the adapter module interface connector during configuration program download and, in general, when the board supply is present.

These precautions reduce the risk of damaging the electronic board because of electrostatic discharges.

You should do the following steps to connect the PC to the appliance:

- 1) Turn off the appliance and, if it is possible, unplug it from the power supply.
- 2) After the power off of the appliance, wait at least 5 seconds BEFORE touching the board or the interface cable to prevent Electro Static Discharge (ESD) damage risk
- 3) Access to the electronic board and the concerning connector.
The way to execute this operation depends on the type of the appliance.
- 4) Connect the adapter module interface cable both to the electronic board and to the interface module.
- 5) Connect the power plug and turn on the appliance.
- 6) Connect the USB cable both to the PC and to the AMI module.

The above sequence of steps guarantees user's safety and reduces the risk of damage due to electrostatic charges. It also avoids the storage of the FREQUENCY OF APPLIANCE INCORRECT (EH1 or EB1 in Fabric Care appliances) alarm that is generated when the board is supplied by the interface module instead of the mains power supply (230 VAC).

DISCONNECTING THE APPLIANCE FROM THE PC

Before handling the electronic board, you should discharge your body from possible electrostatic charges, by touching one conductive object connected to earth.

WARNING: never touch both neither the board nor the adapter module interface connector during configuration program download and, in general, when the board supply is present.

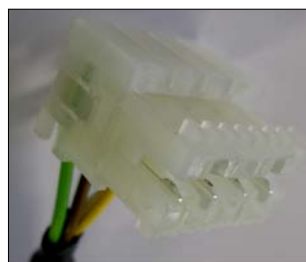
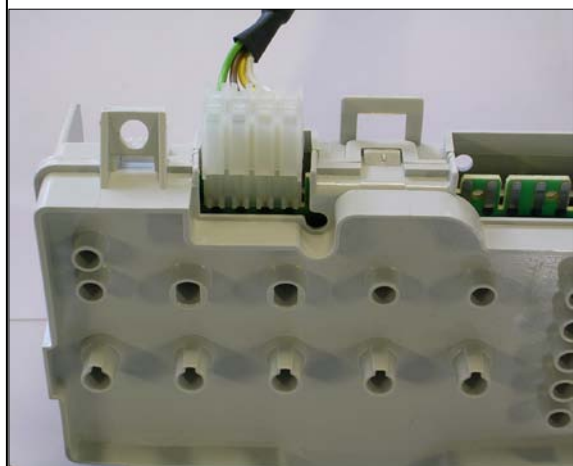
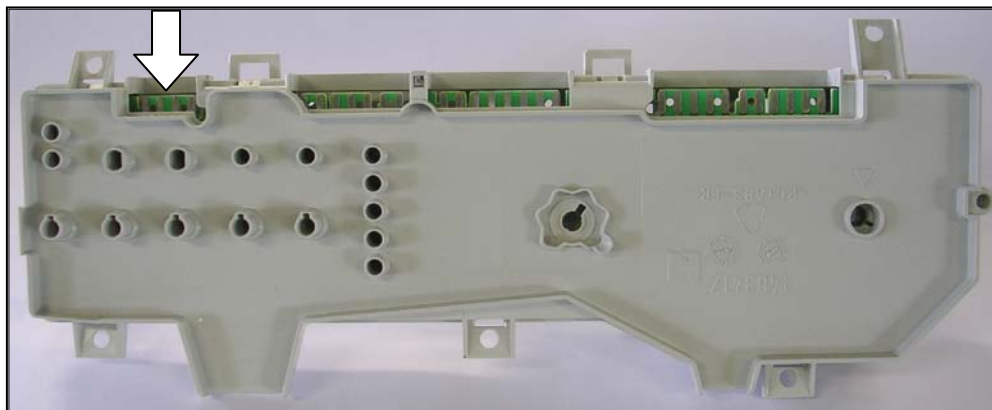
These precautions reduce the risk of damaging the electronic board because of electrostatic discharges.

You should do the following steps to disconnect the PC from the appliance:

- 1) Disconnect the USB cable from the PC.
- 2) Turn off the appliance and, if it possible, unplug it from the mains power supply.
- 3) After the power off of the appliance, wait at least 5 seconds **BEFORE** touching the board or the interface cable to prevent Electro Static Discharge (ESD) damage risk
- 4) Disconnect the adapter module interface cable from the electronic board.

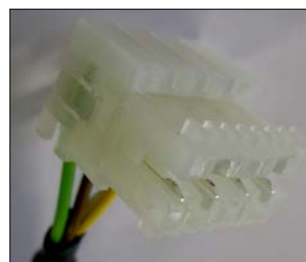
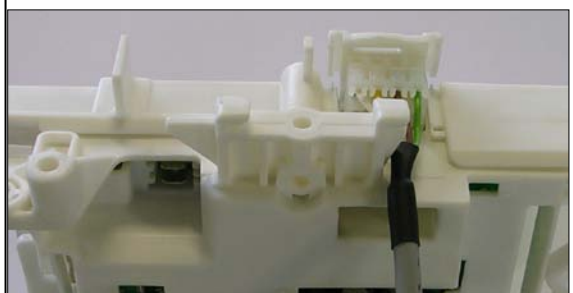
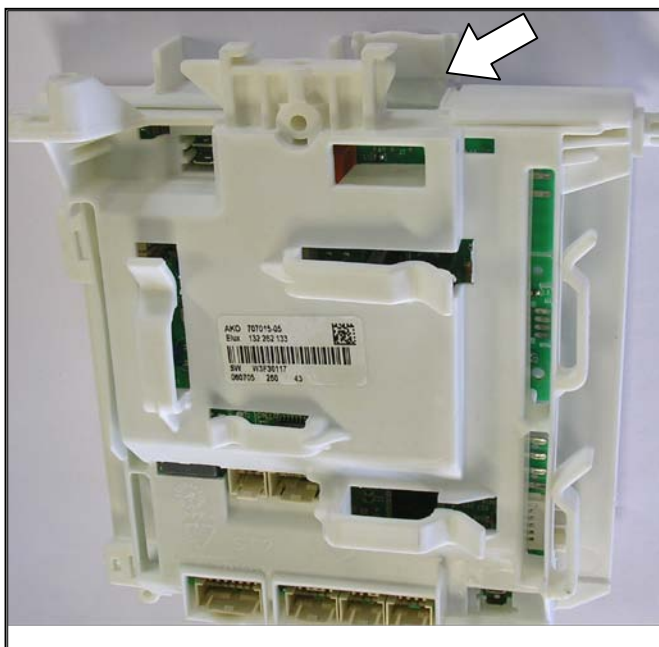
The above sequence of steps guarantees user's safety and reduces the risk of damage due to electrostatic charges. It also avoids the storage of the FREQUENCY OF APPLIANCE INCORRECT (EH1 or EB1 in Fabric Care appliances) alarm that is generated when the board is supplied by the interface module instead of the mains power supply (230 VAC).

Washing-machine connections



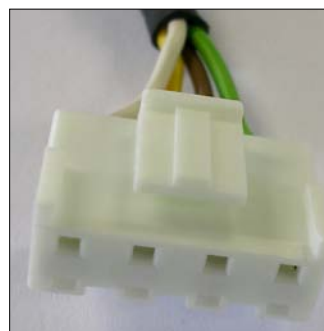
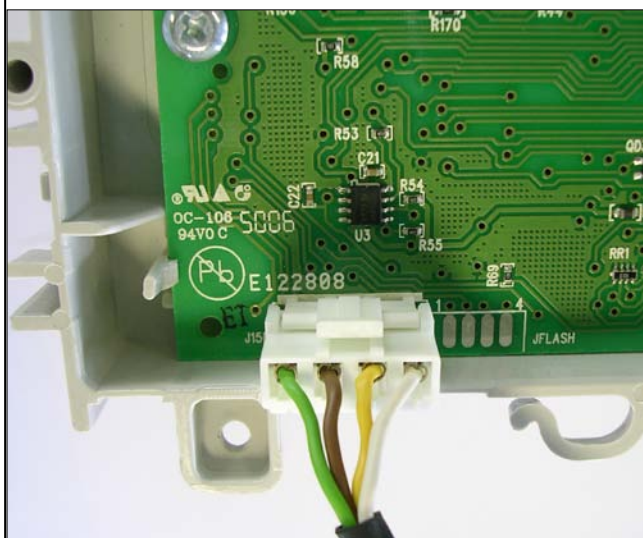
RAST 5 DAAS

EWM 1000



RAST 5 DAAS

**EWM 1000+
EWM 2000
EWM 3000**

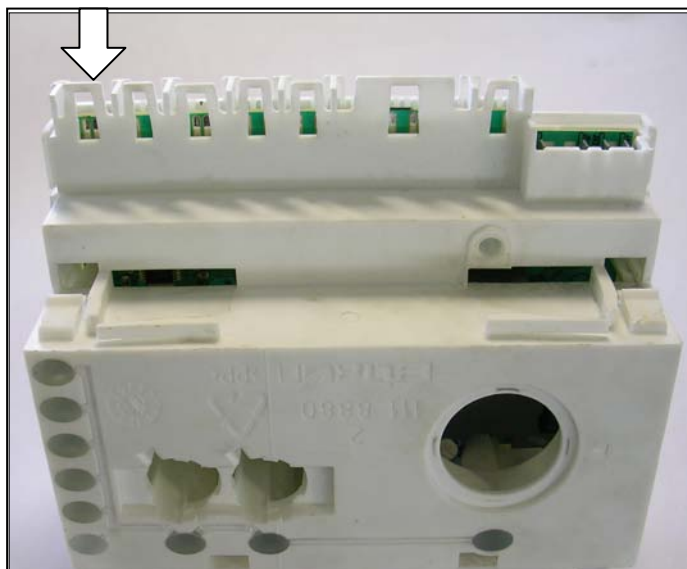


**ENV 06
JST DAAS**

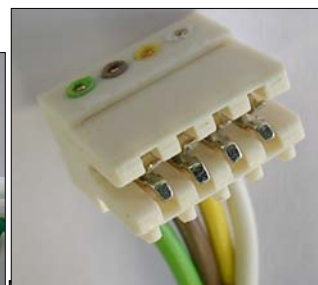
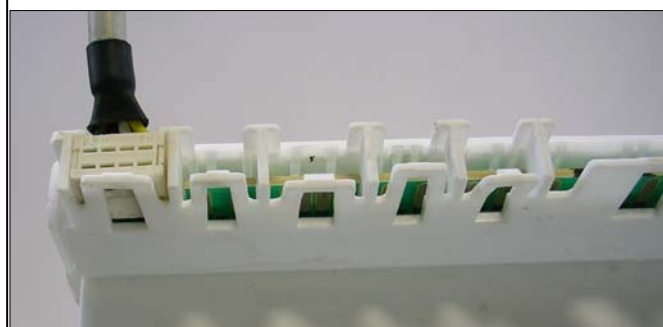
ENV 06

**EWM 1100
EWM 2100
EWM 2500
EWM 3500**

Dishwasher connections



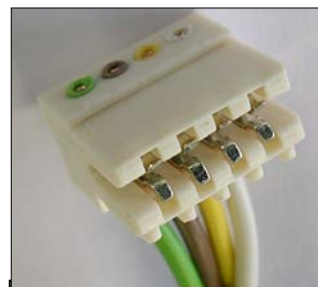
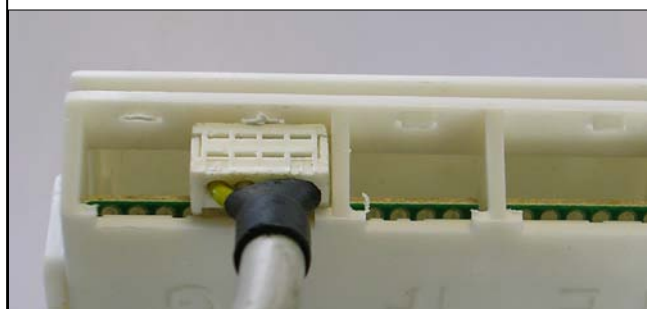
**EDW 5 - -
EDW 500
EDW 503**



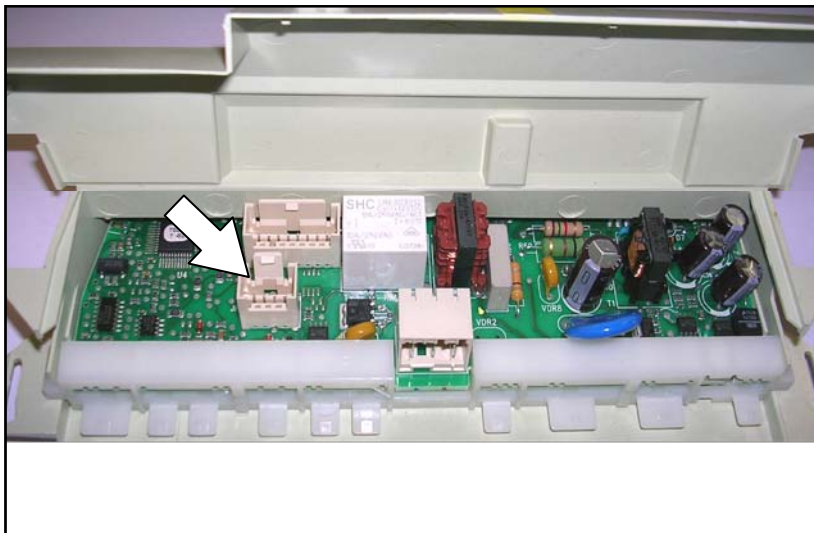
RAST 2.5 DAAS



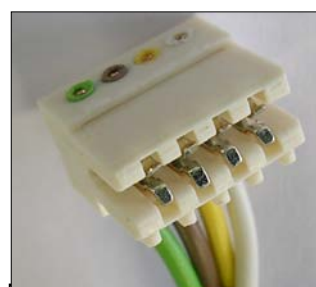
**EDW 1000
EDW 1100
EDW 1500**



RAST 2.5 DAAS

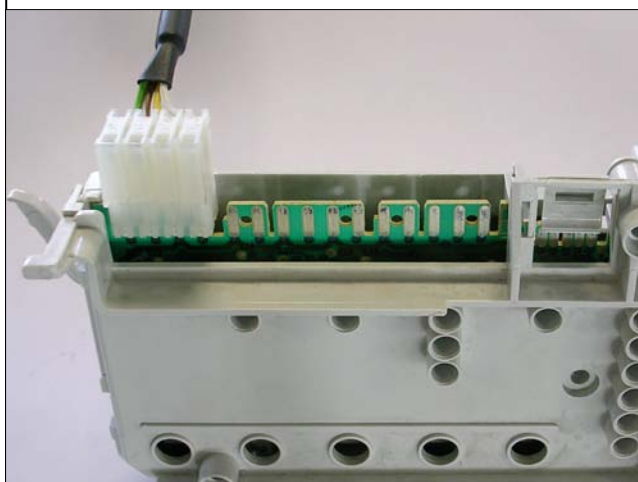
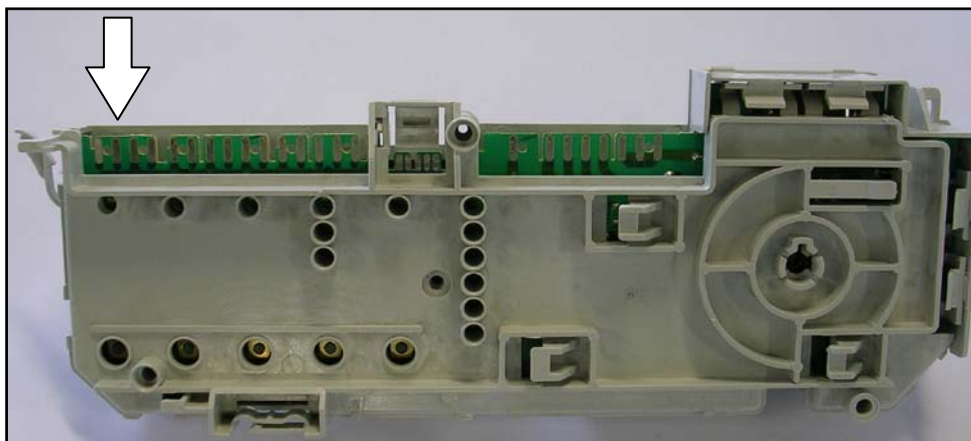


EDW 2000



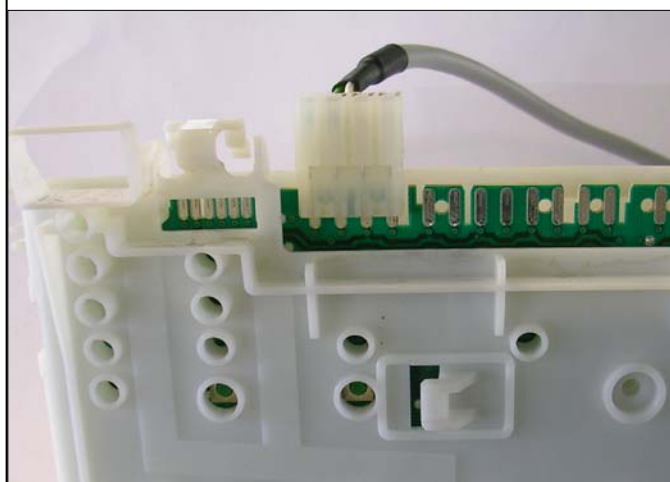
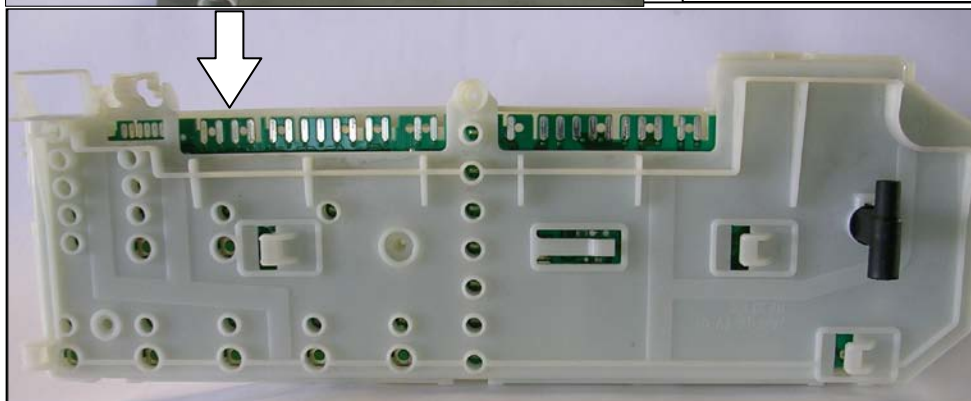
RAST 2.5 DAAS

Dryer connections



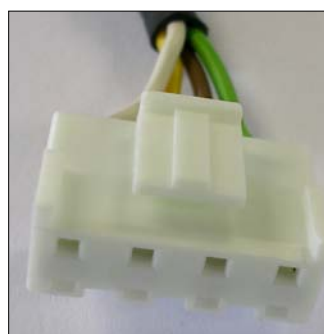
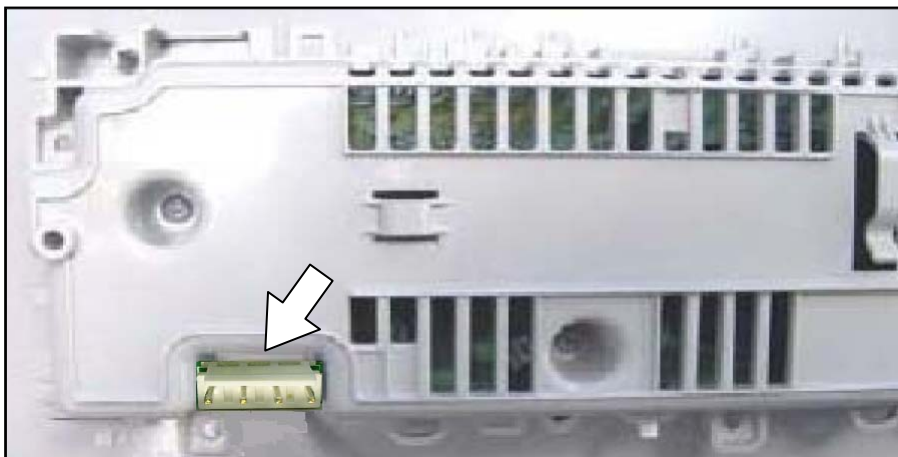
EDR 1000

RAST 5 DAAS



EDR 2000

RAST 5 DAAS



**ENV 06
JST DAAS**

ENV 06