INSTALLATION MANUAL

Victoria Arduino – Eagle One

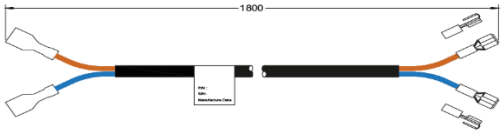
2 GROUP

1. Installation Materials

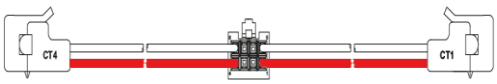
1.1 Device and Peripherals

IoT Device

GPS Antenna



Power Cable



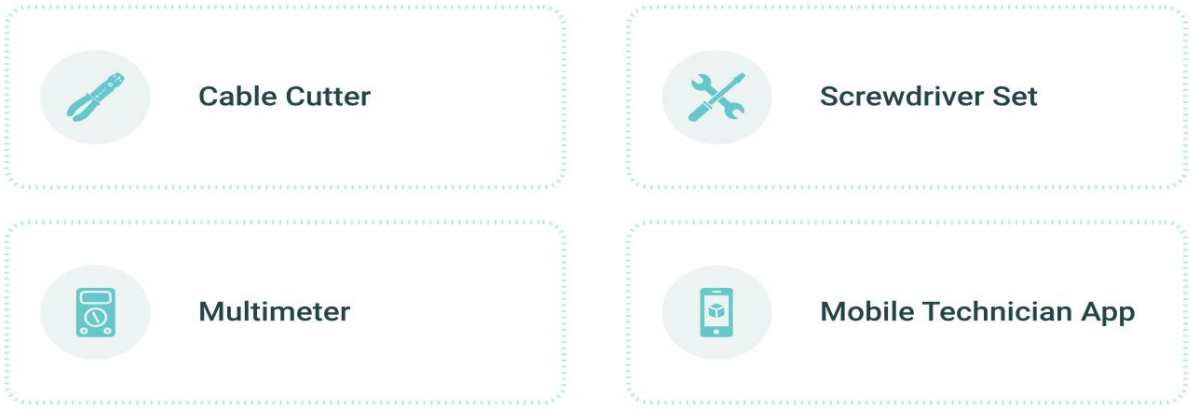
2x CT Cables

Flowmeter Cable

Accessories Bag

External AC/DC Converter

1.2 Required Toolbox (Not Provided)



1.3 IoT Device Overview

PWR: Power Supply
Flow: Flow Meter 1
Flow Meter 2
Flow Meter 3
Flow Meter 4
Flow Meter GND
Flow Meter GND
CT: Water Pump
CT: Boiler
COMMS: External Flowmeter +
External Flowmeter –
External Flowmeter Signal
SMA Connector: GPS Antenna

1.4 Notes & Warnings

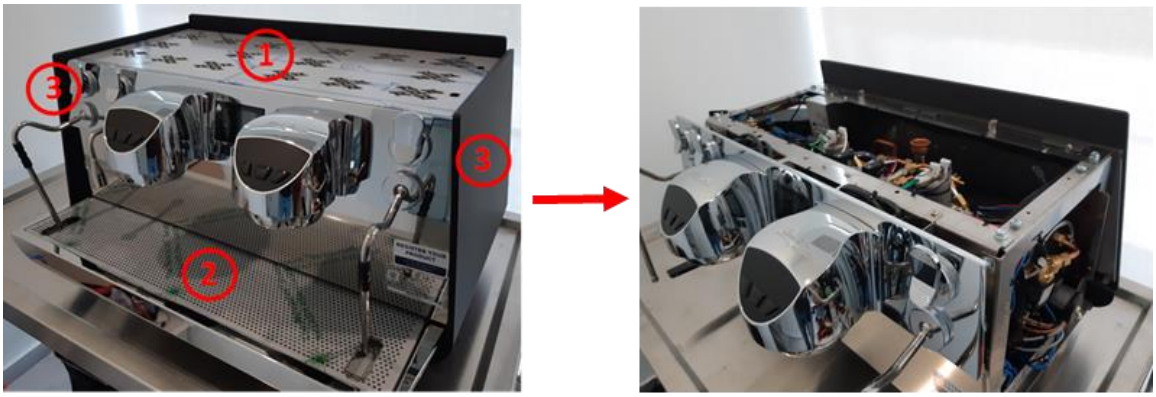
⚠ Make sure that the Coffee Machine is switched off **before** you begin the installation process

⚠ Do not store the device near the hot parts on the Coffee Machine (e.g. Boiler)

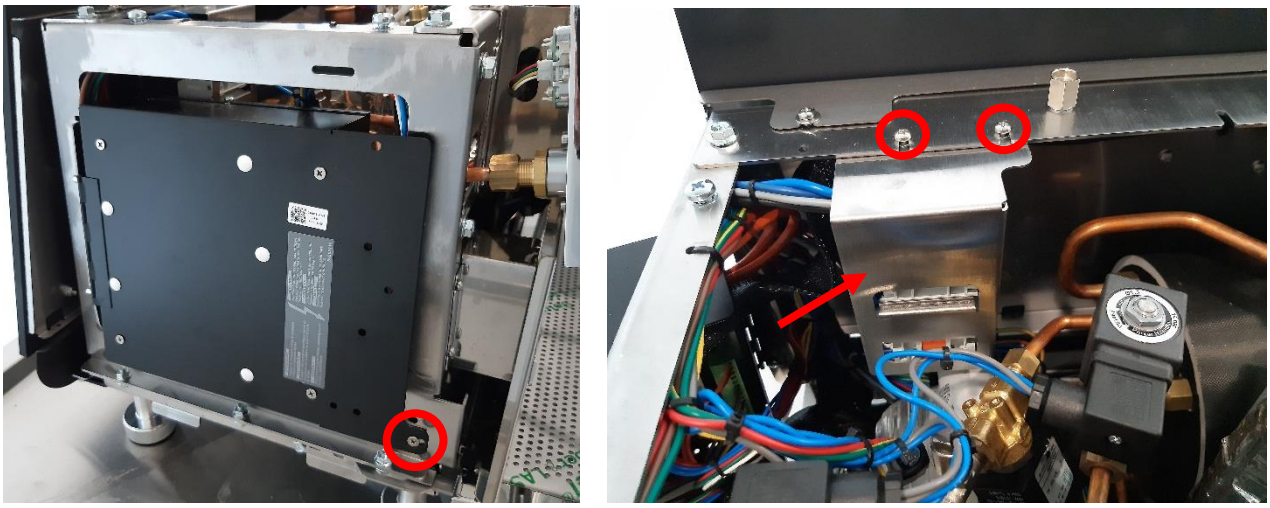
☠ **Caution!** The device circuit carries 220V; may cause severe electric shock. Please handle with care.

2. Device Installation

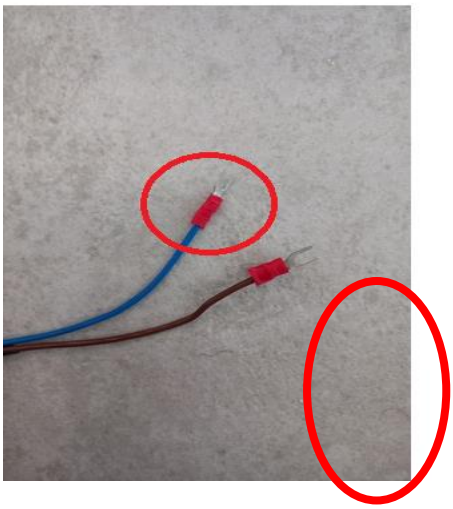
Step 1: Remove the cup warmer (1), the drip tray (2), and the side covers (3) of the coffee machine.

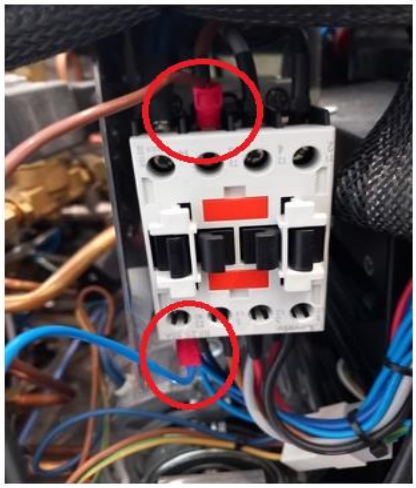


Step 2: At the left side of the machine, remove the screw highlighted in the picture below (left) to release the electronics' box and then remove the two screws on the top-left of the machine to release the power relay.

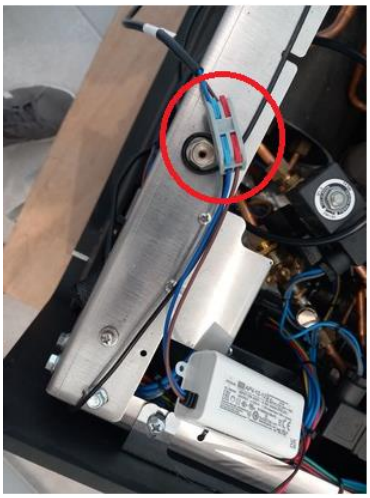


Step 3: Install the fork terminals to the two wires of the power cable (included in the Gulliver kit). Connect the blue and brown wires of the power cable to the power relay (positions 13 and 6 respectively) as shown below. Use a cable-tie to secure and stress relief the cable.



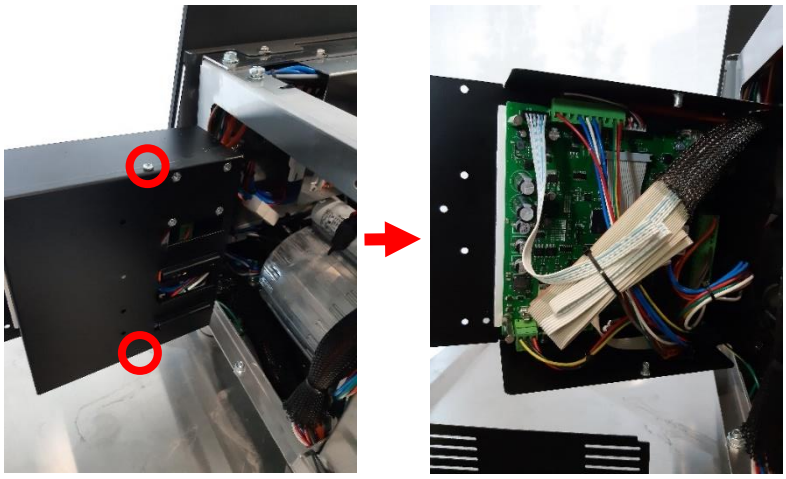


Step 4: Attach the power cable with input of the AC/DC converter that is included within the Gulliver kit. Afterwards connect the output of the AC/DC converter with the power cable of the IOT device

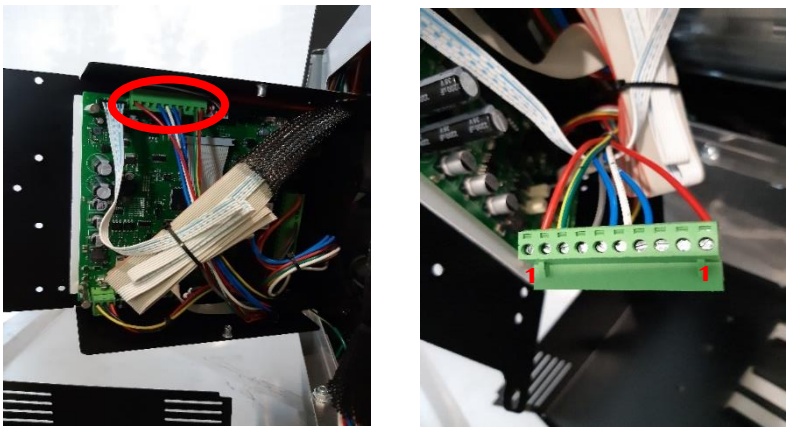


Important Note: In some cases (when for example the Coffee Machine is connected to a Single-phase grid) there is the possibility that the machine's central switch appears to have the opposite polarity, when the IoT Device is connected to the Coffee Machine. This means that the Coffee Machine appears constantly OFF in the BibeCoffee platform. **To solve this issue, try reversing the polarity on the connection of the coffee machine to the power supply.**

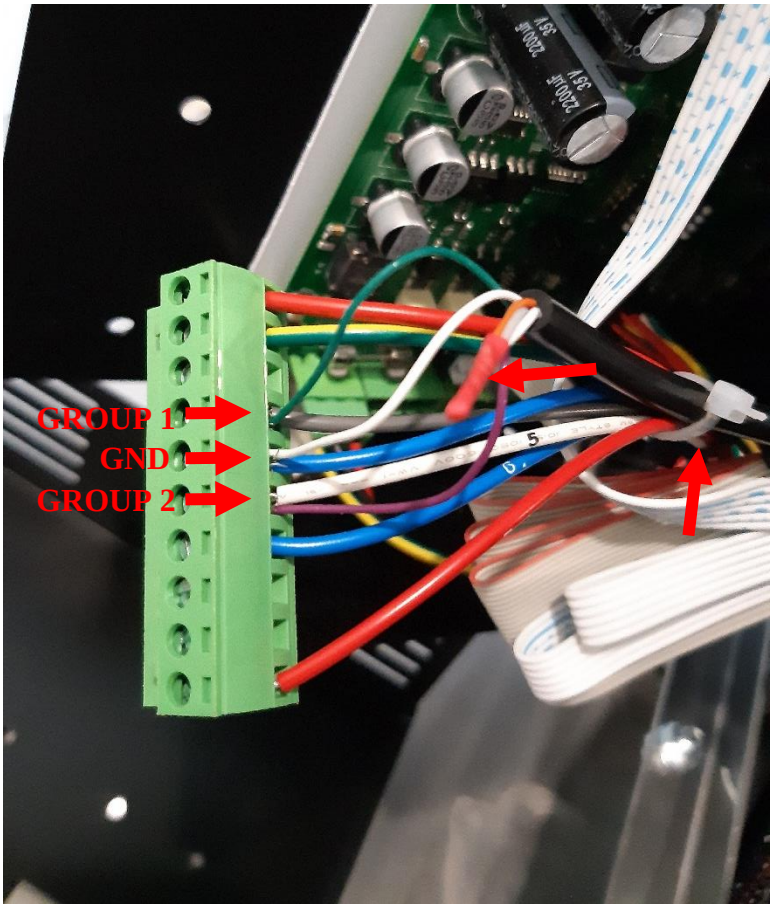
Step 5: Remove the cover of the electronics' box at the left side of the machine.



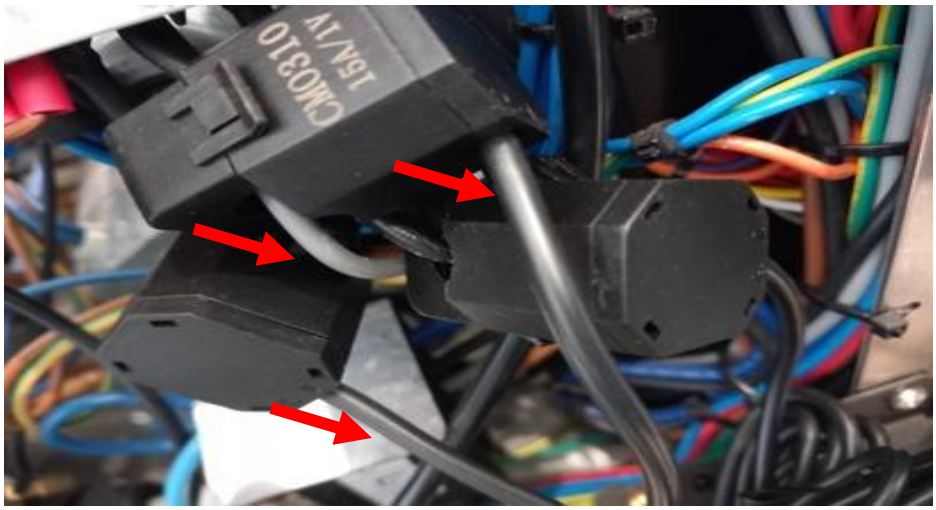
Step 6: Locate and remove the 10-position screw terminal at the top of the circuit board.



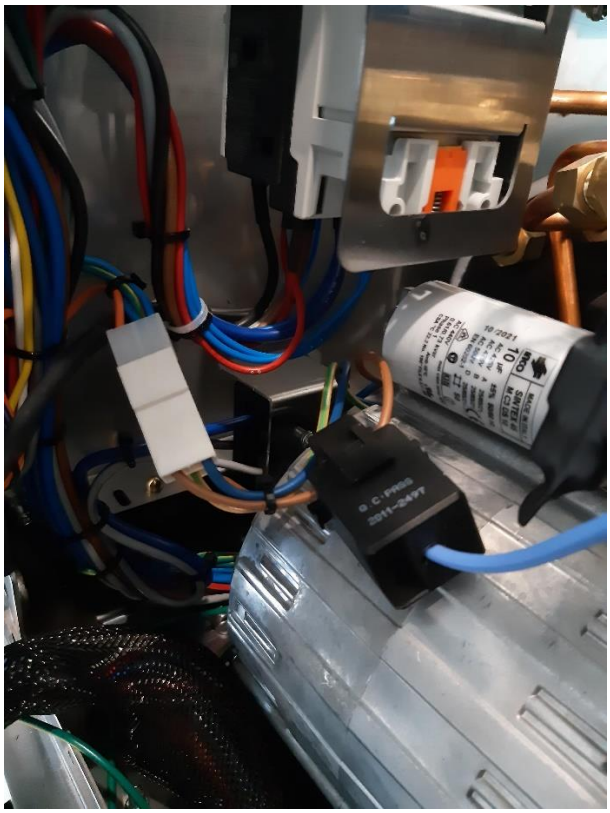
Step 7: Connect the flowmeters' cable to the screw terminal as follows: green wire (group 1) to position 4, white wire (ground) to position 5, and purple wire (group 2) to position 6. Short-circuit the three remaining wires (white, grey, and yellow) and use the provided heat-shrink to protect and isolate the connection. Use a cable-tie to secure and stress relief the cable.



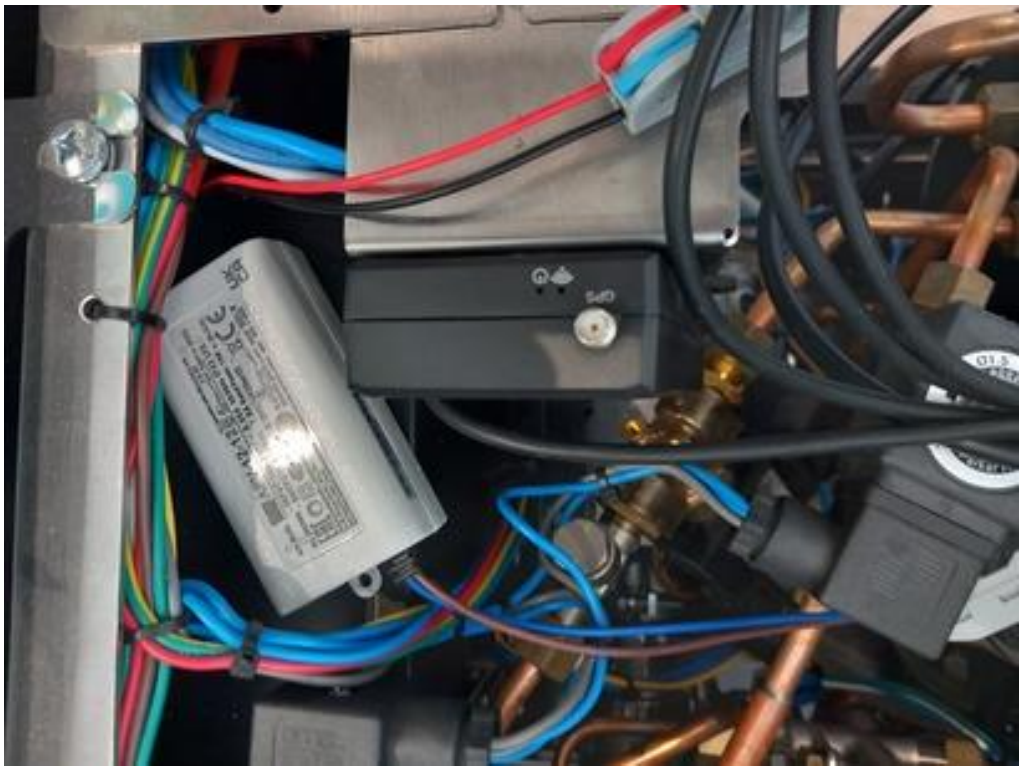
Step 8: Connect the black (main power) CTs to the three power (live) cables of the central conductor, located at the right side of the machine, as shown below.



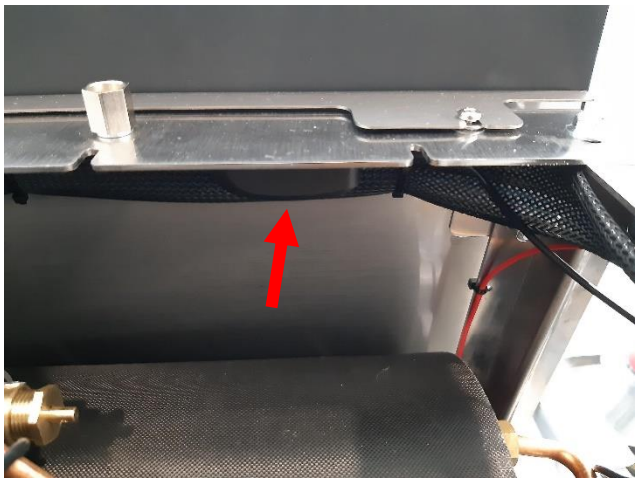
Step 9: Connect the blue (pump) CT to the power (live) cable of the pump, located at the left side of the machine, as shown below.



Step 10: Mount the external AC/DC converter using double-sided tape and the telemetry device using the magnets at the back side of the device at the right side of the coffee machine as shown below.



Step 11: Mount the magnetic GPS antenna at the top-right side of the coffee machine as shown below.



3. External Flowmeter Installation

Connect external flowmeter following instructions from the external flowmeter manual.

4. Device Activation & Configuration

Activate the service and then configure the device according to coffee machine calibration following instructions from the technical mobile application manual

5. Platform check for metrics

Now, you can login to the IoT platform and ensure that data is registered in the platform.

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any inte rference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

We make it count!