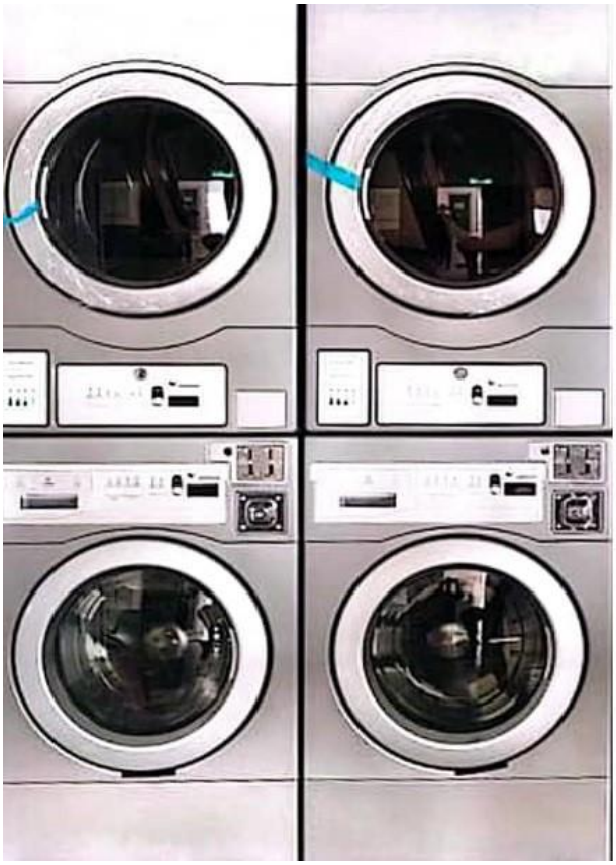
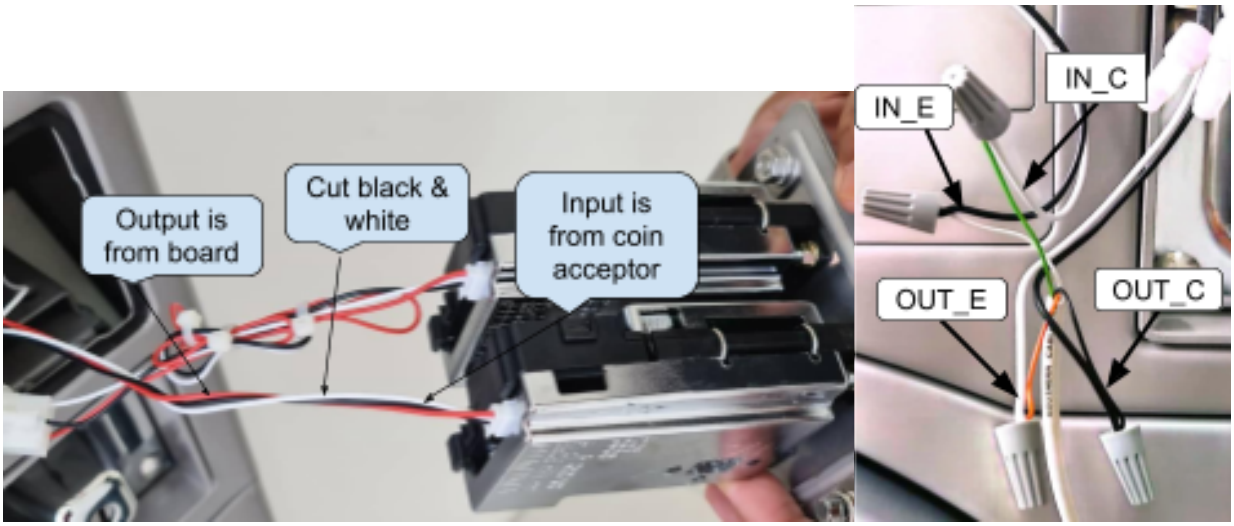
Blue Whale - Installation

Example: Blue Whale Stack Dryer & Washer



(A) Connection Washer/Dryer

1. Blue Whale machine, the connection is direct and simple. You will see three wires running from the board to the coin acceptor (Black, White, and Red).”



2. As shown in the picture above, cut the Black and White wires between the board and the coin acceptor. Then, connect the input and output using the 4-core wire from the device.

3. Leave Red wire

- **Do not cut Red** (it's power). It should remain continuous from board.

4. Cut the Black & White wires

- Cut both **Black** and **White** roughly in the middle of their run.

5. Two sides after the cut

- The ends **coming from the board** = **OUTPUT** (to the machine board).
  - Board-White → **OUT+**
  - Board-Black → **OUT−**
- The ends **going to the coin acceptor** = **INPUT** (from the coin acceptor).
  - Acceptor-White → **IN+**
  - Acceptor-Black → **IN−**

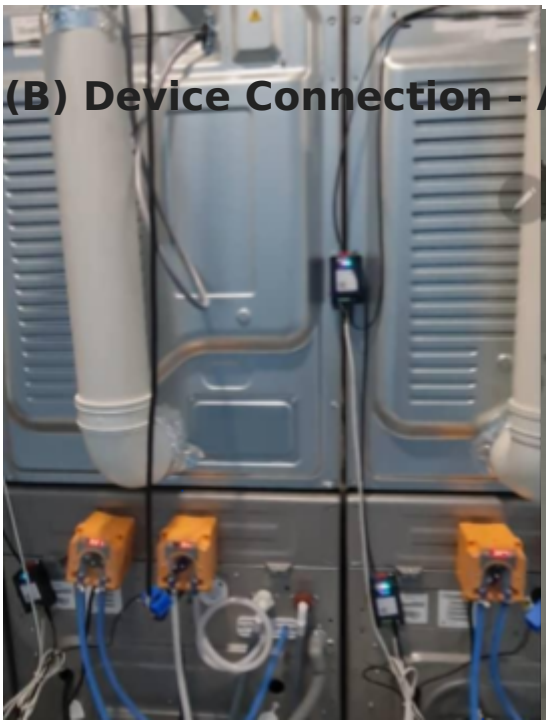
6. Power ON and test

- Insert a coin/token, If the Coin Read in Node Cloud app shows pulses and the machine credit—done.

7. If it shows "No Pulse Detected":

- Confirm **IN/OUT are not swapped**.
- Verify **+ and −** on both input and output pairs.
- Ensure the coin is actually **accepted** (a rejected coin won't pulse).

(B) Device Connection – ALPHA-1





1**.** Devices will be placed behind the machine by screwing it using a specific screw**.**

2. Connecting the 4-Core Wire to the Device

1. Connect the **4-core wire** to the device according to the terminal markings:
   - **Input (IN−, IN+)**
   - **Output (OUT−, OUT+)**
2. After wiring, make a **loop connection** between:
   - **IN− (Input negative)**
   - **OUT− (Output negative)**
3. Ensure all connections are secured and insulated before powering ON.

Blue Whale Cashless Machine (Non-Coin Acceptor)

(A) Wire connection Dryer


Dryer Connector

1. **Locate the cashless connector**

- Identify the two output wires shown in your picture:
  - **White = Output (−)**
  - **Green = Output (+)**

2. Dryer cashless machines with a connector as shown in the picture above, use the output connection only. Tap into the two wires: White (Output Negative −) and Green (Output Positive +), using a 2-core cable from the device.

(B) Wire Connection Washer


Washer connector

1. **Locate the cashless connector**

- Identify the two output wires shown in your picture:
  - **Pink = Output (−)**
  - **Red = Output (+)**

2. Washer cashless machines with a connector as shown in the picture above, use the output connection only. Tap into the two wires: Pink (Output Negative −) and Red (Output Positive +), using a 2-core cable from the device.

(B) Device Connection - ALPHA-1



Quality Note: Looping From Input (-) To (+)

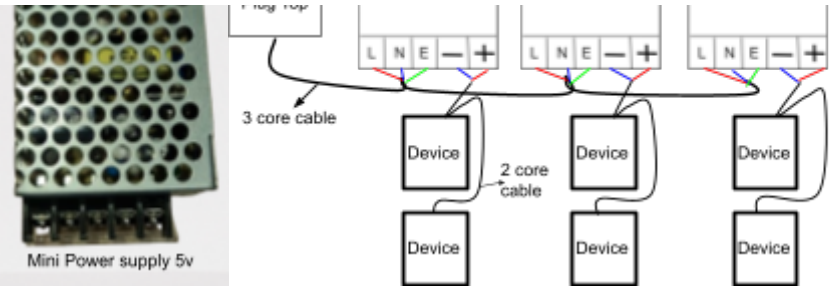
1**.** Devices will be placed behind the machine by screwing it using a specific screw**.**

2. Connecting the 2-Core Wire to the Device.

1. Connect the 2**-core wire** to the device according to the markings:
   - **Output (OUT−, OUT+)**

2. After wiring, make a **loop connection** between:
   - **INPUT− (Input negative)**
   - **INPUT− (Input positive)**
3. Ensure all connections are secured and insulated before powering ON.

Power Supply Connection for Blue Whale Machine



Quality Note: 5v Power Supply Required

1. For the Blue Whale machine, each device must have its own dedicated power supply. For example, one device requires one power supply. If there are five devices, you must use five separate power supply connections, as shown in the image above.

⚠ **Safety Notice**

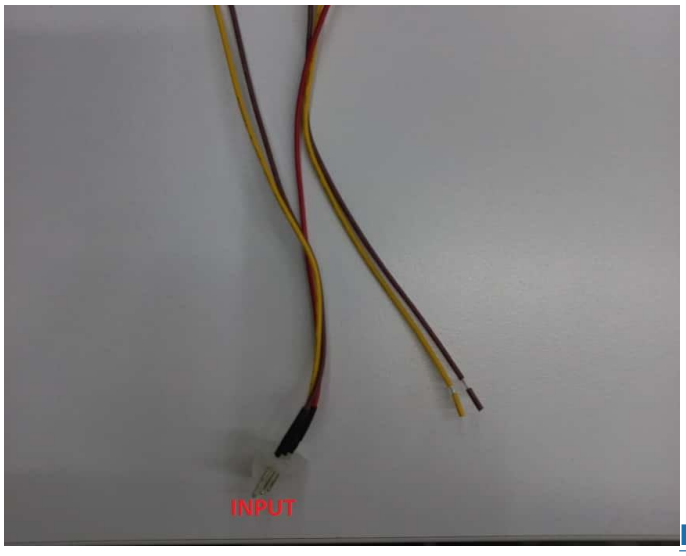
“Before switching on the power, always ensure that all wires from the main supply to the power supply are properly connected and securely fastened to prevent short circuits, sparks, or damage to the device.”

Blue Whale New Version

dryerstack.avif

STACK DRYER

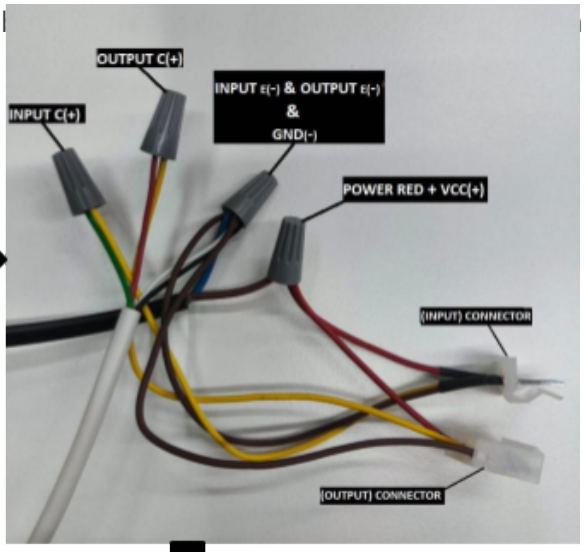
1) The new version will use a specific harness cable, and the deice power can take from machine .

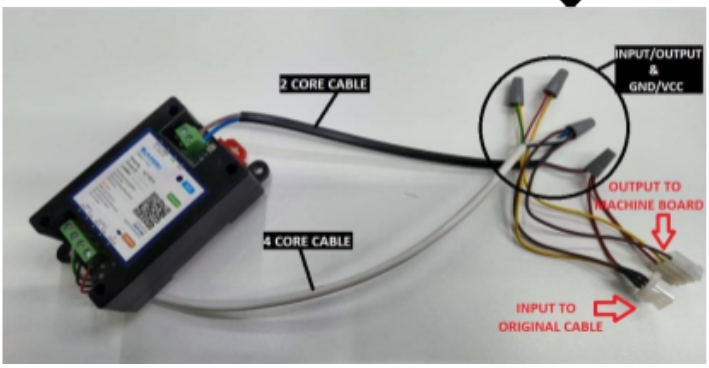


HARNESS CABLE

vice, prepare l ecting the







INPUT/OUTPUT &

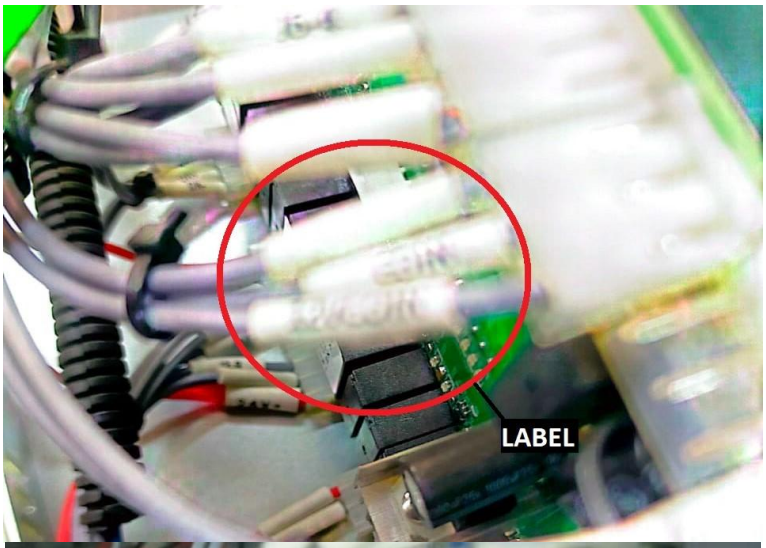
GND-/VCC+

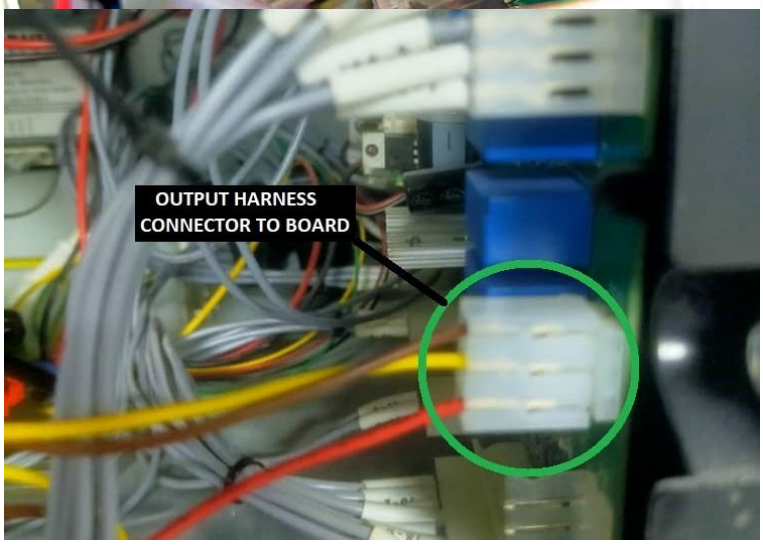
3) Step by step connection return below.

1. Use a 4-core cable to connect the device's **INPUT E(-)/C(+)** and **OUTPUT E(-)/C(+)** points.

- From the device, take **INPUT E(-)**, **OUTPUT E(-)**, and **GND (-)**, join them together, and connect to the 'harness cable' **INPUT** and **OUTPUT** connections (CHOCLATE).
- From the device, take the **INPUT C(+)** and connect it to the 'harness cable' INPUT (YELLOW).
- From the device, take the **OUTPUT C(+)** and connect it to the 'harness cable' OUTPUT(YELLOW).
- From the device, take the **VCC (+)** and connect it to the red wire on 'the harness cable' (RED)

4) Follow the step-by-step connection procedure and connect it to the machine board.





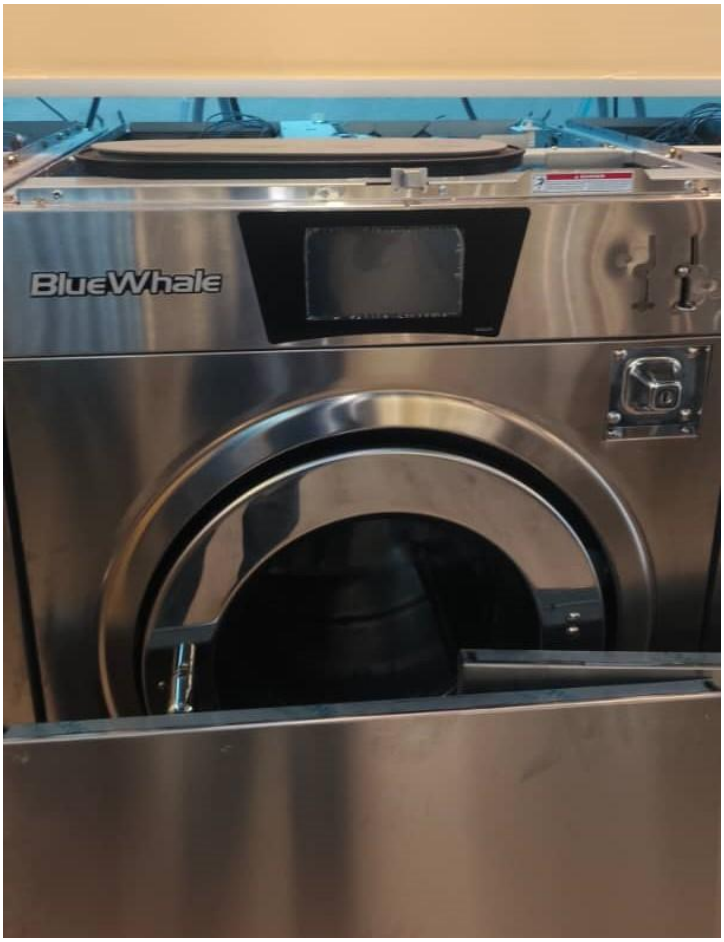
BLUE WHALE MACHINE BOARD

- If you are not sure which connector to use, refer to the red-circled label on the cable in the picture. The coin acceptor cable has the same label, so you can match the labels to

identify the correct connector on the board.

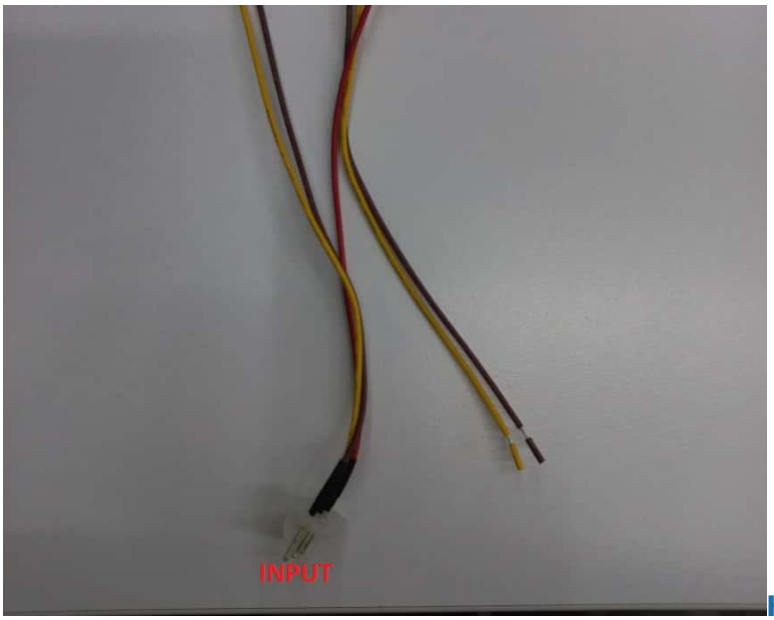
- Find the correct connector by pulling out the cable. Connect it to the harness cable INPUT, then connect the harness cable OUTPUT to the board.

WASHER



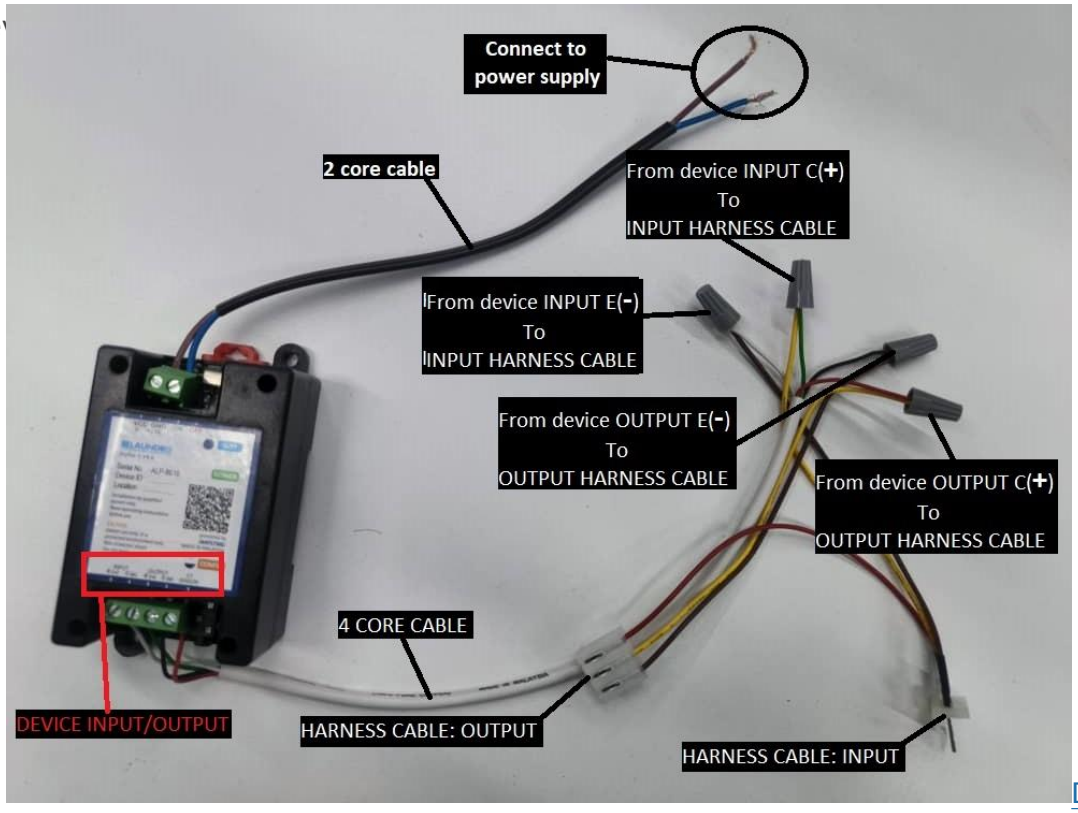
BLUE WHALE WASHER

1) The new version will use a specific harness cable, and the deice power can take from machine .



HARNESS CABLE

2) Before we start install device, prepare both a 4-core and a 2-core cable for connecting the dev



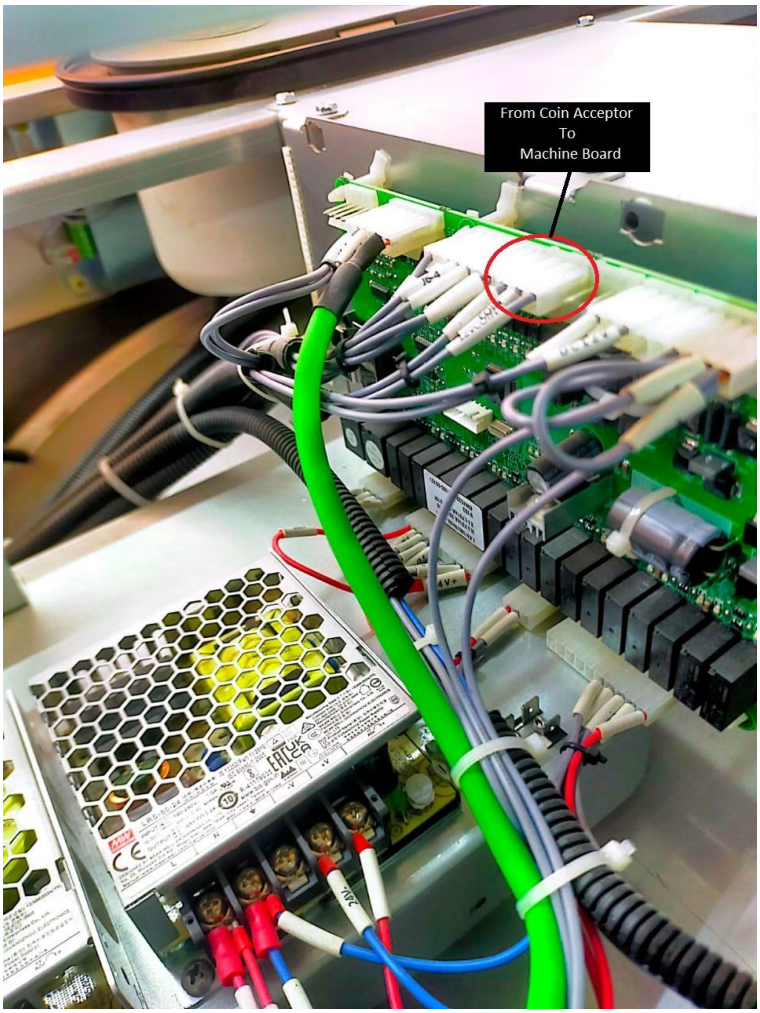
Device To Harness

Cable Connection

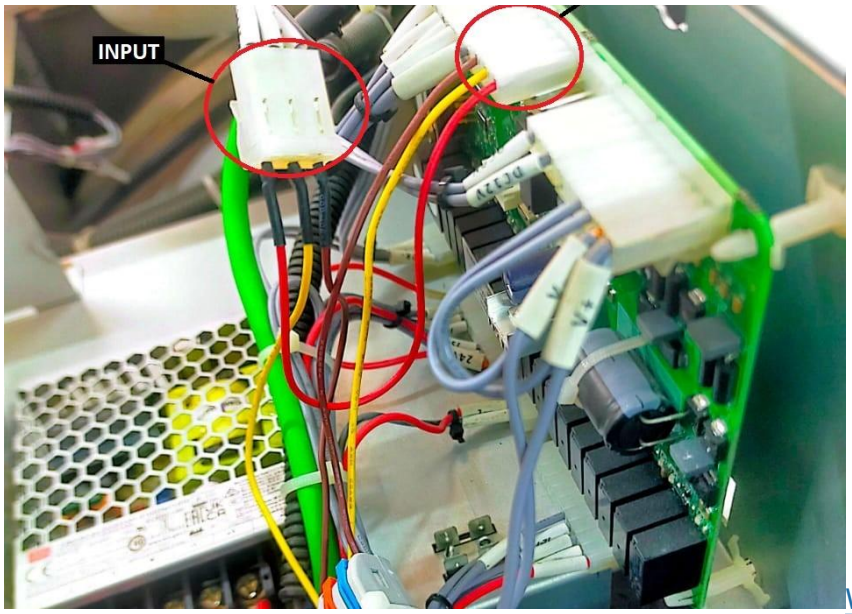
3) Step by step connection return below.

- Connect the device INPUT E(-) (White wire) to the harness cable INPUT (Brown wire).
- Connect the device INPUT C(+) (Green wire) to the harness cable INPUT (Yellow wire).
- Connect the device OUPUT E(-) (Black wire) to the harness cable OUTPUT (Brown wire).
- Connect the device OUTPUT C(+) (Red wire) to the harness cable OUTPUT (Yellow wire).

4) Follow the step-by-step connection procedure and connect it to the machine board.



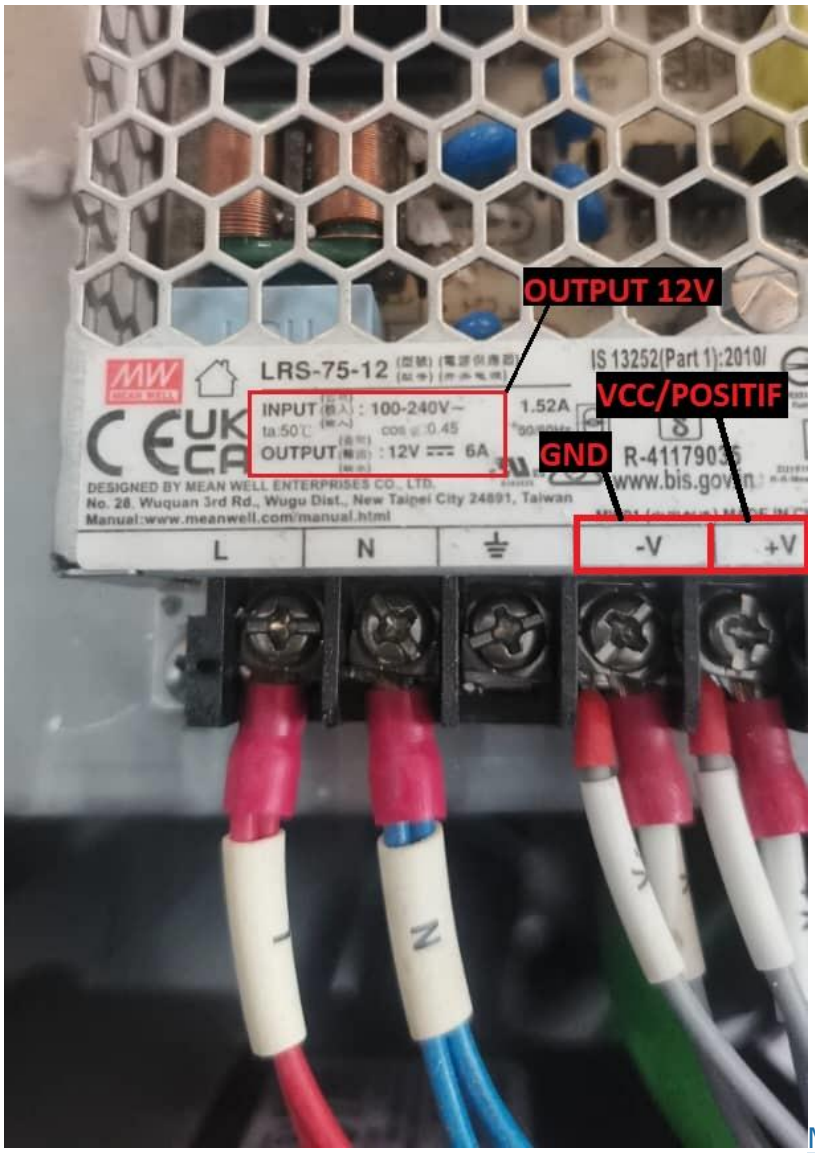
WASHER BOARD ORIGINAL CONECCTION



WASHER BOARD HARNESS CABLE CONNECTION

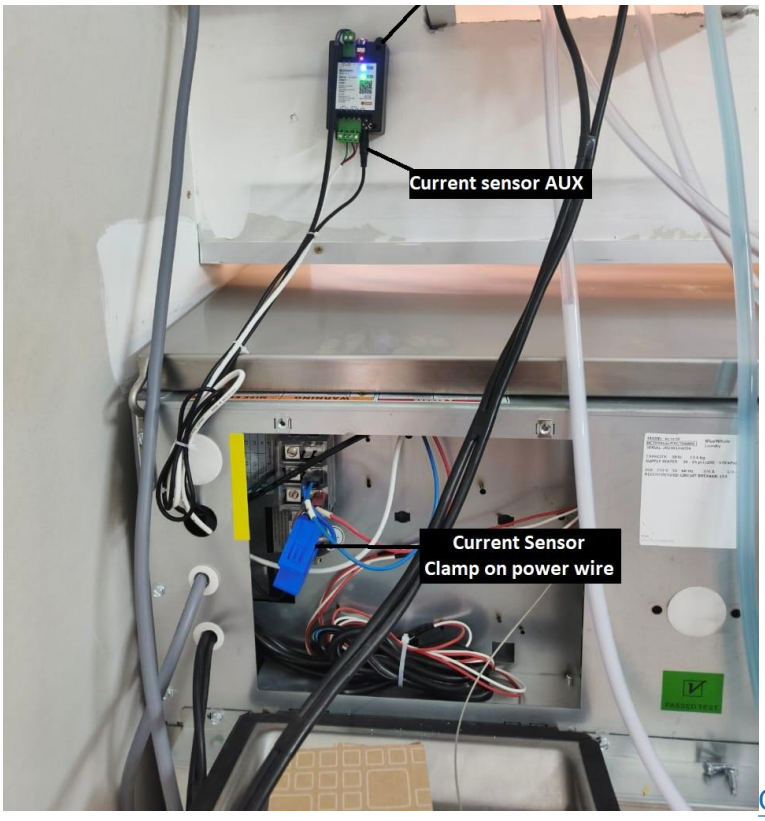
5) Find the correct connector by pulling out the cable. Connect it to the harness cable INPUT, then connect the harness cable OUTPUT to the board.

6) The device will receive power from the machine’s existing power supply. Since there are two power supplies present, use the one that provides 12V.



Machine Power Supply

7) After completing all the connections, power on the machine. The device’s blue indicator light will begin blinking.



CURRENT SENSOR & DEVICE PLACING

8) You may place the device in the position shown in the picture, or any safer location where it will not be damaged.

9) Clamp the current sensor onto the machine’s positive power wire, and connect the AUX plug to the device.

Revision #10
Created 2025-08-15 09:55:55 UTC by KUNA
Updated 2025-11-10 08:10:19 UTC by KUNA