

Disave Shot timer installation instructions. Firmware V12

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Scope

The Disave volumetric touch pad has been designed to help the barista maintain quality control of shots during a busy day, by displaying the extraction time of the last shot made. This is reinforced by a simple GREEN and RED coloring on the display to let the barista know the last drink was made either within tolerance, GREEN, or outside of tolerance, RED.

Direct Replacement Models

Please check which model of machine you are installing the board into as it will only suit the below models from Disave as direct replacements. If unsure check with Disave technical team.

Elegance 1-3gr

Silvestre 2gr

Megacrem (not EC model) 1-3gr

Rafael 2-3gr

Classic Ruggero V1, V2 single boiler 1-3gr

Alfa Ruggero single boiler 2-3gr

Before starting make sure you have everything to complete the job. For each machine you will need a master board setup (comes with autofill probe adaption cable) and slave board setup (comes with 2 pin bridge connector) for the remaining groups. Each board will require a flowmeter adaption cable and is supplied in the kits.

Decommission original boards

Check the machine is turned off and plug has been removed from the wall.

On the original boards mark the 3 flowmeter connectors with a +, -, 0 symbol from the appropriate position from the original board before disconnecting. It is important to maintain the correct polarity for the flowmeter.

Identify which board operates the autofill so the shot timer master board is installed into the same position. The wiring to operate the inlet solenoid is not available to all boards on multi-group machines.

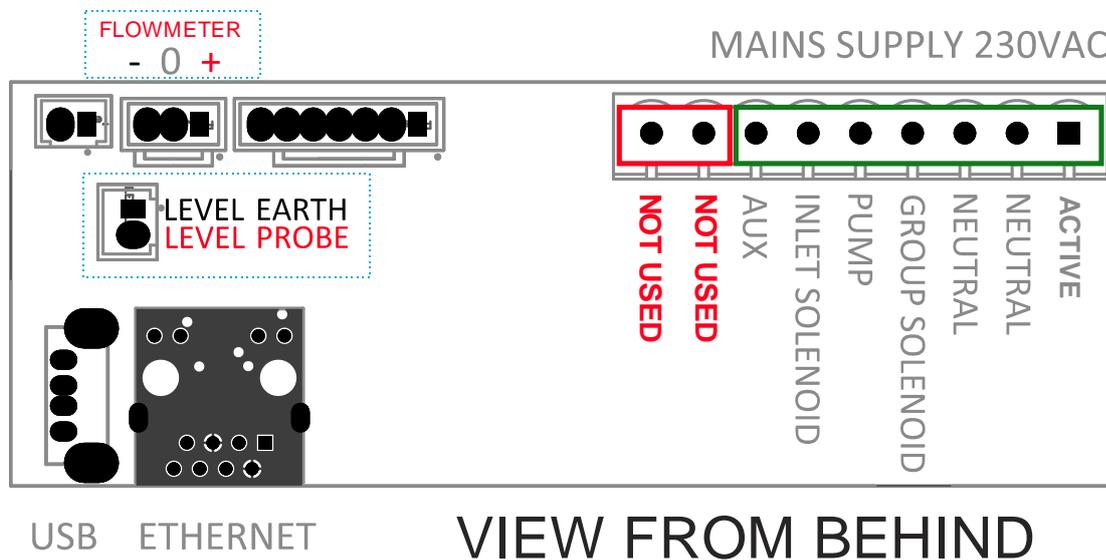
Disconnect the wiring, undo the nuts, and remove original boards by splitting the front and back section of the boards away from the control panel. Install the shot timer board in the same matter, taking care not to force or damage the PCB's.

Once the back cover is on and the nuts have been done up firmly, connect the new adaption cables into the appropriate positions. The flow meter cable plugs into the “FLOW” connection, the autofill adaption cable with white plug goes into the “LEVEL” position just under the “FLOW” connector in the master position. The slave positions will have a bridge installed into the “LEVEL” connector. See diagram below.

You can then connect the original fill probe wire into the new fill adaption cable and connect the flowmeter wires into the correct +,-,0 position of the flowmeter adaption cable.

The last item to connect is the 7-pin green connector. You will need to cut back the black heat shrink from the green connector so it doesn't foul on the new 9-pin connector. Move all the wires from the 7-pin connector to the 9-pin connector so that they remain in the same pin position, leaving the last 2 pins empty. See pin positions below in RED that should be empty.

Insert 9-pin connector into board.



Ensure all wiring is free from sharp and hot surfaces and has been secured with cable ties.

Reinstate power/water to the machine and check all functions including the autofill system.

If you get a flowmeter error. Check the polarity of the connections, common color codes below.

(Brown or Red is +)

(White is 0)

(Green/Yellow is -)