

Troubleshooting and replacing the control board on the Aduro P5 series

Difficulty level: Difficult

Time consumption: 45 minutes

Tools: TORX 20 screwdriver, small 5 mm flathead screwdriver

Components: [Control board \(aduroshop.com\)](http://aduroshop.com)

NB: All changes and adjustments must be conducted when the stove is cold and disconnected from the power supply.

Troubleshooting

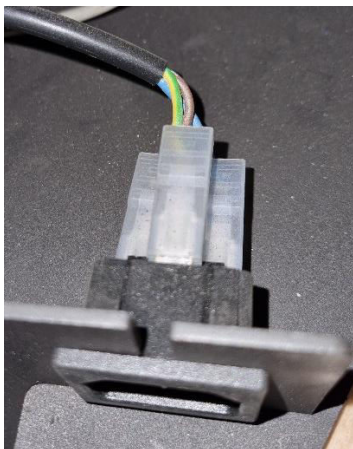
The control board controls all the inputs and outputs of the stove. If something is wrong with the control board, it will affect the other parts of the stove. Therefore, it is important to be able to troubleshoot the problem source.

If the stove doesn't turn on it is important to check all the connections between the electric wall socket and the control board.

1. Check that the IEC plug in the stove is clean and free from dust and other dirt. Also check that none of the pins in the IEC plug is bent:



2. Check the power cable is not damaged.
3. Make sure a ground connection is available in the wall socket, and that the right cable with a ground connection is connected to the wall socket.
4. Remove the stove's back plate by unscrewing the four screws and check that the IEC plug is intact and that all three cables are connected:

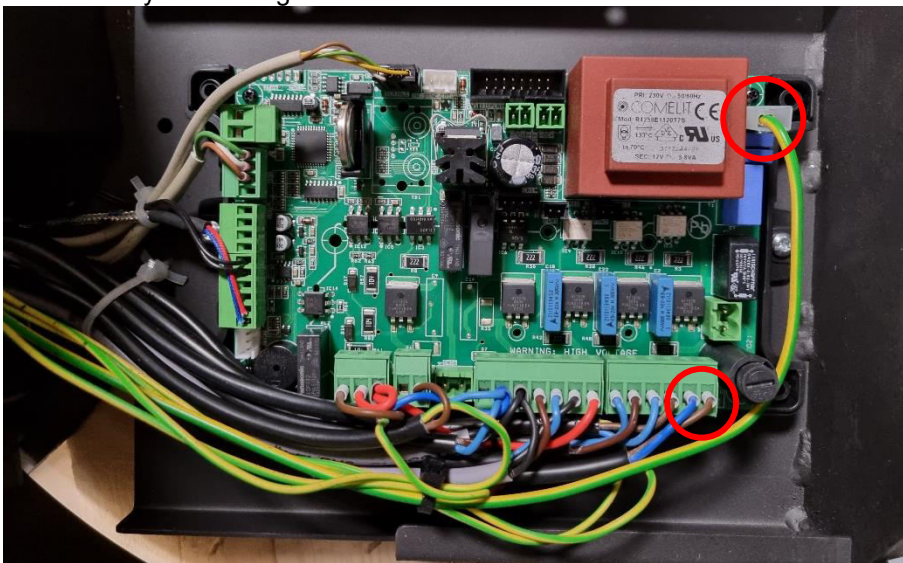


Note: Before continuing, unplug the power cable.

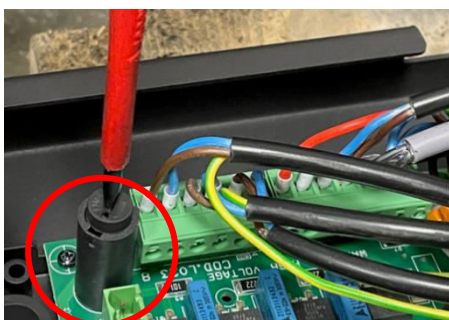
5. Access the stove's control board from the front of the stove in the lower left corner. Unscrew the two screws and then pull out the control board.



6. Now check that the wires and cable that go from the IEC plug to the control board are intact and connected at both ends. Also check that the ground connection on the control board is connected. The power cable is connected to the control board on the marked blue & brown cables, the ground is the marked yellow and green cable:



7. Check the fuse to see if this is blown. The fuse is accessed by unscrewing the cap on the black tube on the control board:





- a. If the fuse is blown, change it. The fuse is type: *f4a/250v 5x20 mm*. Be sure to buy multiple if it blows again. If the DIY dealers don't have any in stock, you can order them from Aduro Costumer Service.
- b. Try connecting power to the stove to see if this has solved the problem.
- c. If the fuse blows again when the power is connected, one of the components might be causing this. Disconnect the power and unplug all connections except for the ground cable and the power cables to the control board. Replace the fuse again. Then connect the power again.
- d. If a green LED lights up on the board, the board is functional. Connect one component at a time until the fuse breaks again, then check the component and the cable to that component for any errors, loose connections/cables, and broken parts.
- e. If *no* green LED lights up, and the fuse is intact, the control board is broken and needs to be replaced.

Replacing the control board

1. Gently pull out all the connectors on the broken control board.
2. Remove the old control board by unscrewing the two screws, which connects it to the metal plate:



3. Mount the new control board onto the metal plate, fasten with the two screws, and plug in all the connectors again as shown in point 6.
4. Check the function of the new board and the components by igniting the pellet stove. Let the stove burn for some time to make sure everything works.
5. If everything works, reinsert the metal plate with the control board into the stove, and screw in the two screws holding the plate as shown in point 5. Remount the backplate with the four screws to complete the installation.