



HAPERO - Repair Center

- HAPERO electronic components
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 - IT – plant technology

Checking the burner door after the
Burner passed or E90 message

Where is the burner flap located?

You can find the burner flap by removing the ash pan from the boiler and looking up through the opening.

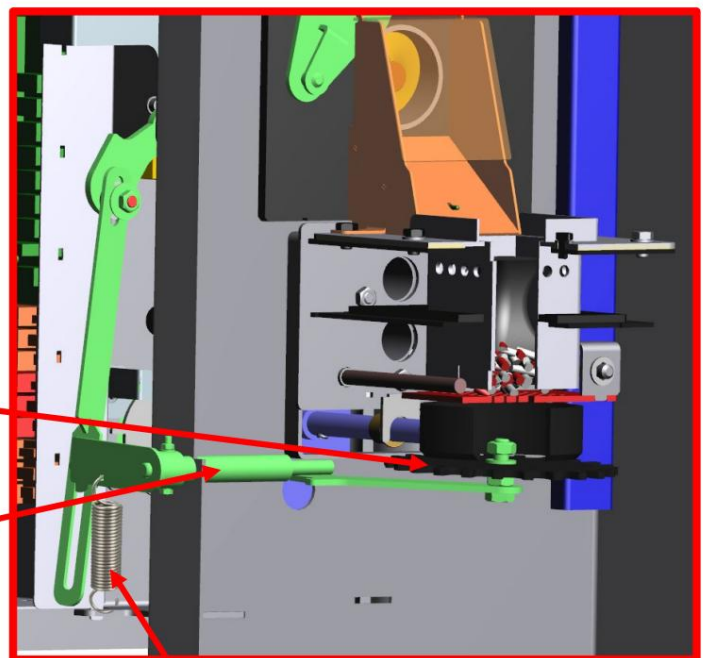
You can easily recognize this burner door because it has teeth. About these teeth the Burner flap rotated.

burner flap

If the boiler is not used for a longer period of time (boiler without power), the axle can rust and the burner flap no longer closes.

axis

The flap is pulled up by a spring. This spring can also break and for the mistake to be responsible.



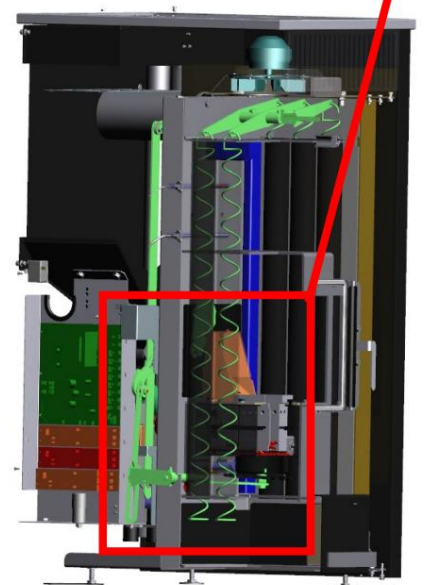
Feather

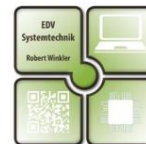
What happens if the flap does not close properly?

This allows the air required for combustion to escape below, directly through the gap in the burner flap. Due to the lack of air in the burner, the pellets burn more slowly and the filling level in the burner rises. As soon as the pellets remain on the chute, this is recognized and the burning process is ended with the end of heating code "Burner passed".

Impact?

- Loss of power
- Error burn back detection
- Error burner passed
- Burner tarring





How is the burner flap checked?

ATTENTION! The boiler must be switched off (OFF) and in burner standby mode!

Look in your operating instructions for how to open the grate / Belimo in the unit test.

Opening the grate takes about 120 seconds. While the grate opens, you can

- Open the combustion chamber door
- Remove the ash pan (if necessary, empty it immediately)
- Get a powerful flashlight

Carefully pull the burner flap down. After about one cm, reduce your traction and let the burner flap close again. You must clearly feel the tensile force of the spring when opening and closing the burner flap.

- If you don't feel this spring pull, check that the spring is intact.
- If you feel the spring tensioner, but the burner flap no longer closes completely, the axle must be made easy again.

make the axle move smoothly

Unhook the spring and unscrew the grub screw [A] on the bracket. After that, drag the angle down from the axis.

Now you can move the axis horizontally.

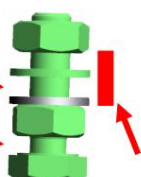
Try using a rust remover (WD40) to make the axle move smoothly again.

If you need to remove the axle, remove the screws [B] from the burner door.

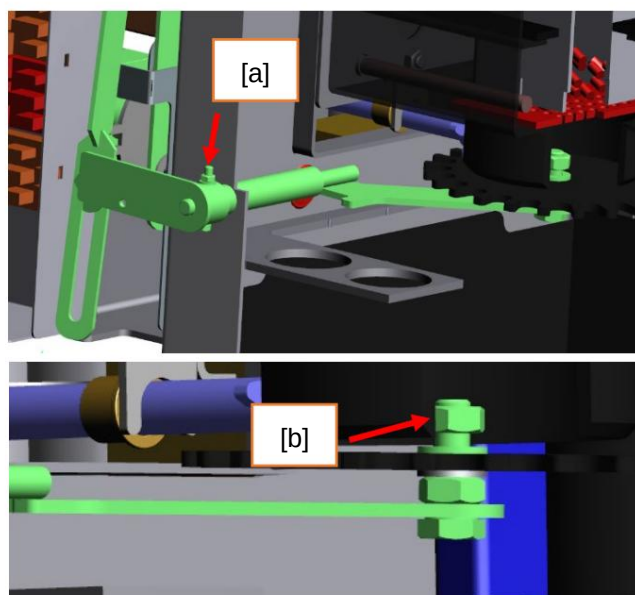
After assembly, the burner flap must be able to move on the lever again.

burner flap

lever



range of motion



final test

Shine the powerful flashlight down through the burner (where the rust would be).

Then look through the ash drawer at the burner flap and check for 2 minutes (burner flap rotates very slowly) whether a ray of light can be seen in the two minutes.

- No - the burner damper works again, the boiler can be put back into operation.
- YES - The burner flap is levered out by the drive wheel. Maybe you can here Turn the burner flap over if the teeth are already ground in.