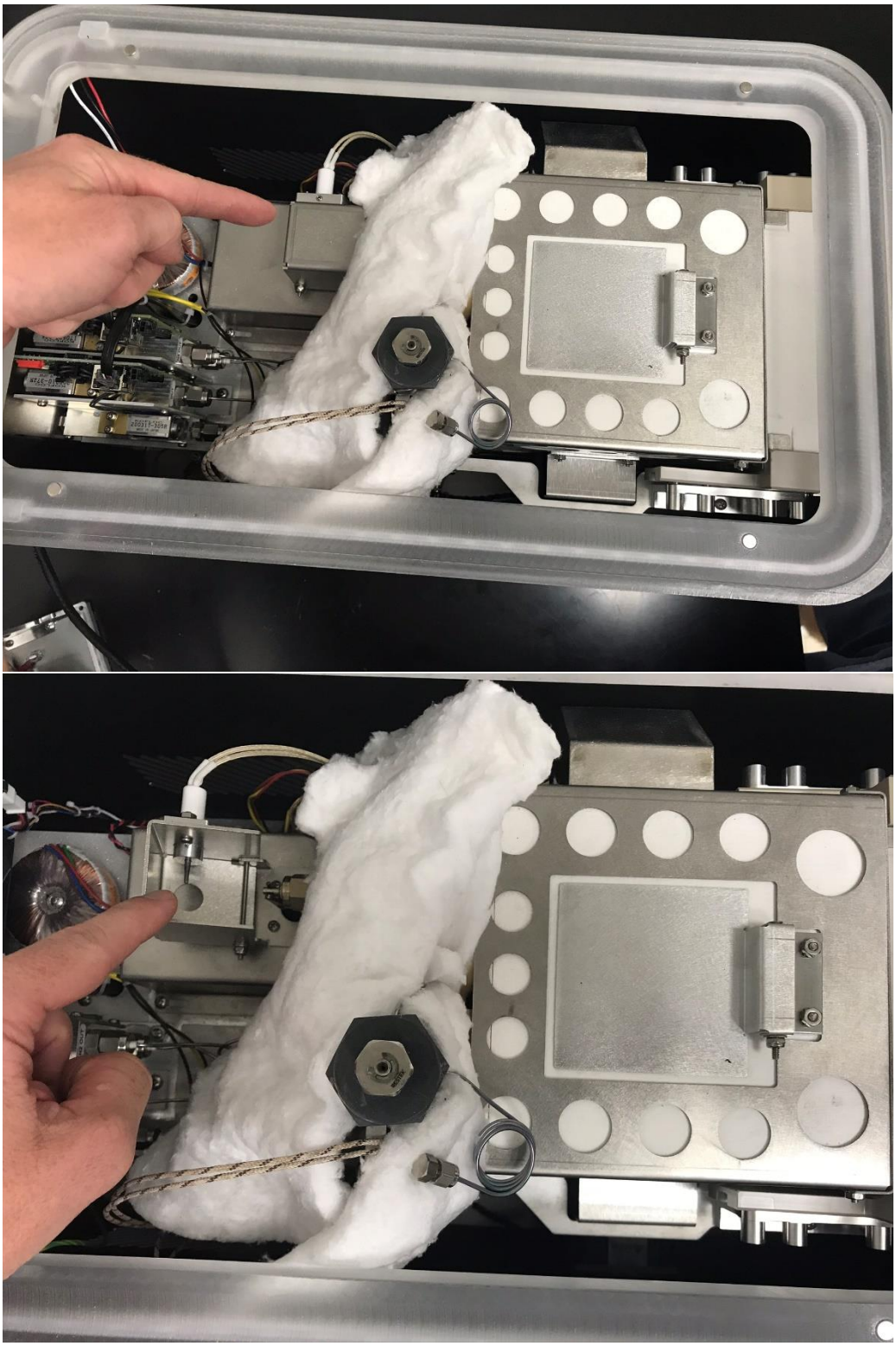
Lucidity

How to check if the ignitor is working in the miniGC

LUCIDITY

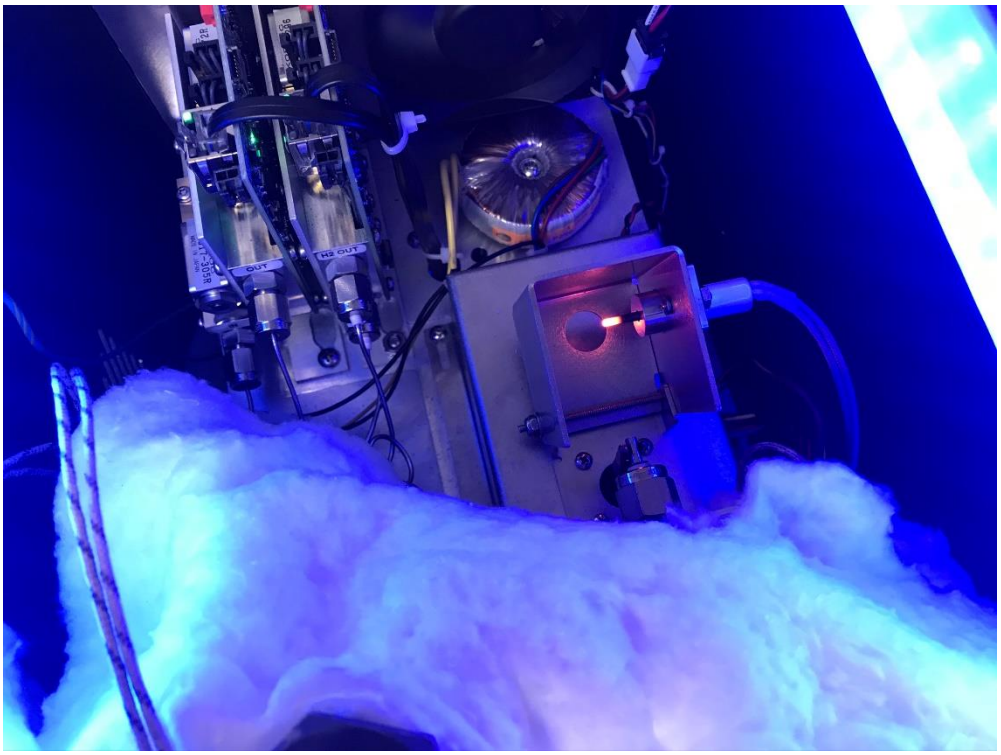
Start by prying up the back of the top cover of the miniGC with a flat blade screwdriver or pair of tweezers. The top plate is only attached to the unit by magnets so by prying it up using the slot in the back you can pull it off of the unit.



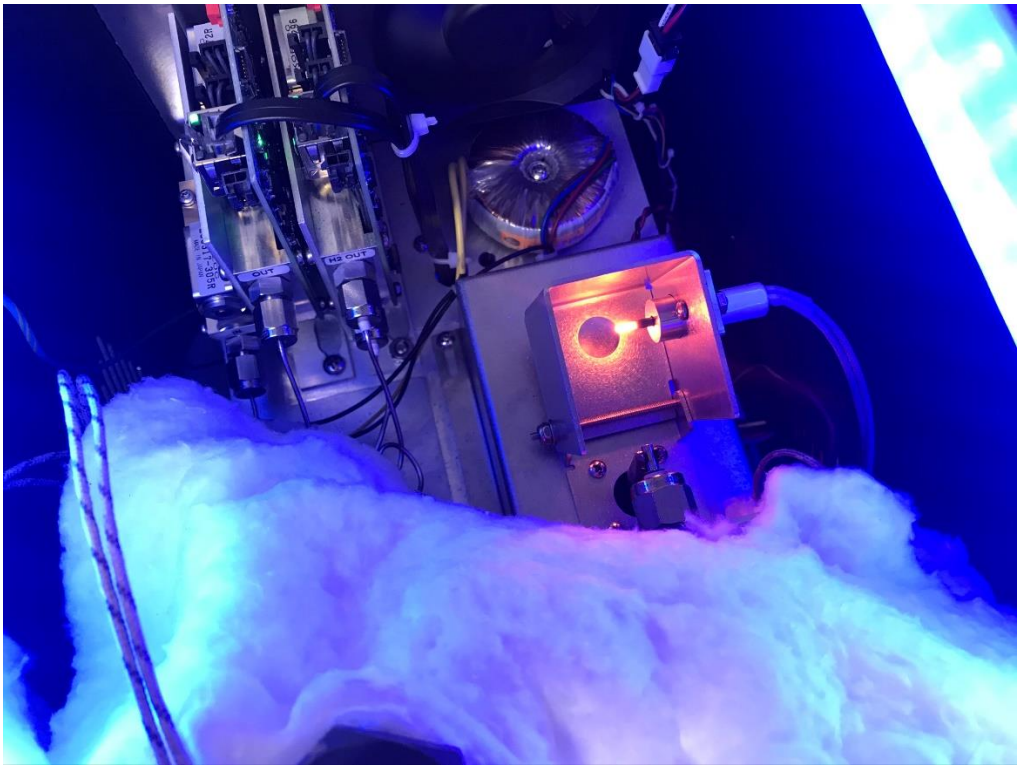
Now you can see inside the unit. These two pictures show the Ignitor Housing. The ignitor housing should normally be in the closed position so that the ignitor is positioned just after the outlet and can ignite the flame in the FID. The Ignitor Housing can be opened as shown in the bottom picture to examine the ignitor.

With the Ignitor Housing in the open position click on the Menu Icon in the top right hand corner of the applications software.

This will open the main menu where you will see the Ignite Button. Press this button and look at the Ignitor.

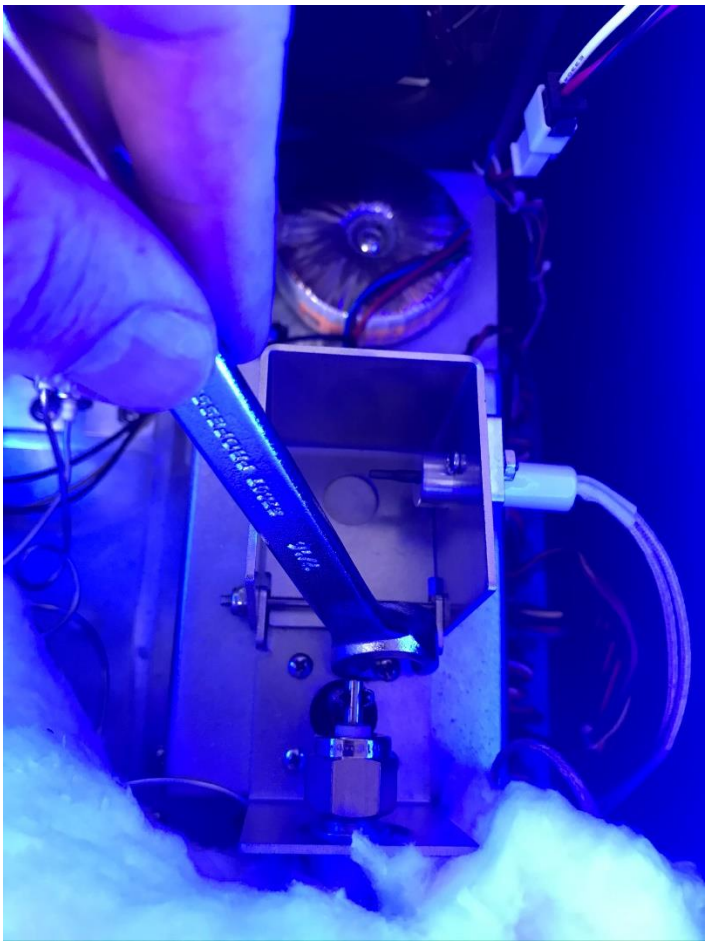


After a few seconds the ignitor should begin to glow as shown in these pictures, which it should do for a few seconds and then go out.



If the ignitor does not glow after pressing ignite then there is a problem with the ignitor itself. It may be unplugged from the board or it may just be bad. If the ignitor does glow after pressing Ignite then the ignitor is okay.

If the ignitor is working the next thing to check is whether it can light a flame or not. Close the Ignitor Manifold and press Ignite again. You should hear a faint pop after a few seconds meaning it lit the flame. If it lit the flame you should also be able to put something metal (like a wrench) in the path of the outlet stream and see condensation forming on the wrench.



If you can't see condensation on the wrench with the Ignitor Housing closed, then try with the Ignitor Housing open and see if you can see condensation. If you cannot see condensation and don't hear a pop a few seconds after pressing Ignite then you may have gas flow issues or there might be leak in the system somewhere – perhaps the column is not sealing into the injection manifold and detector manifold. It may also be that the ignitor has become loose and is not correctly positioned to ignite the flame. You can check for this by visually inspected the system to make sure the ignitor is positioned just at the outlet but not touching it.

If you do see condensation then the ignitor is able to ignite the FID. If this is the case there may still be an issue with the flame going out periodically.