

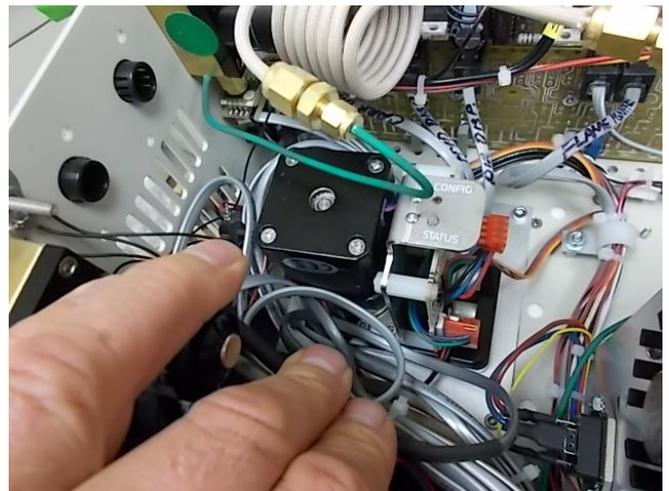
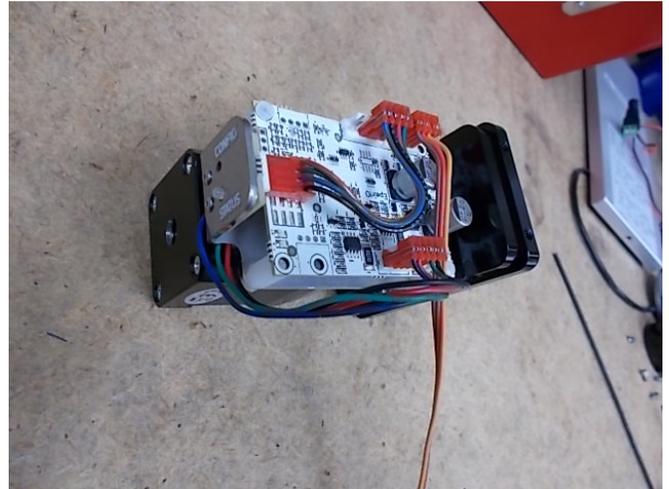
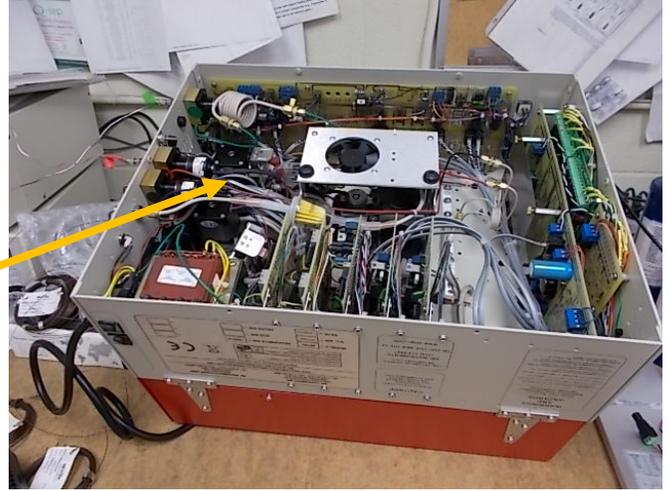
AFP valve board replacement

May 2019

Sometimes it may be necessary to replace the circuit board which controls the AFP valve actuator. AFP calls this actuator a MEA (micro electronic actuator). There may be one, two or three MEAs inside an SRI GC. The MEAs are located here inside the GC.

This is what the version 2 MEA looks like outside of the GC.

This is what the MEA looks like installed in the GC. There can be a lot of wires and cables in the same area. You may have to move some of the wires a bit to get access.



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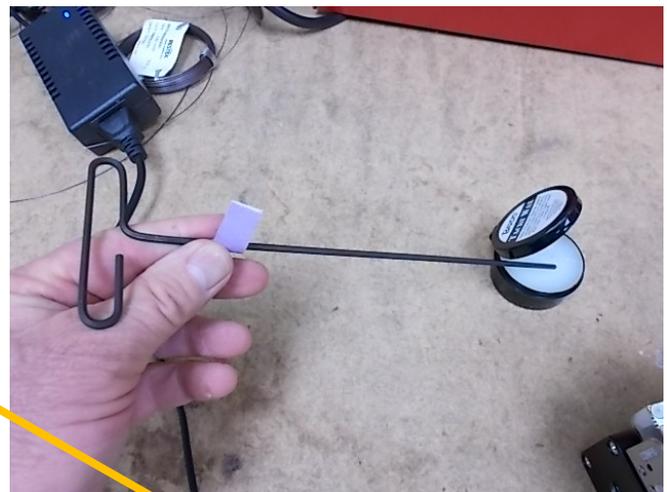
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Tacky Wax is helpful because it keeps the screws from falling out of the wrench when you remove the 4 hex head screws which hold the circuit board in the MEA. SRI will normally include a little bit of the TackyWax in a plastic bag when we send a replacement board.

We also include a long 7/64" hex wrench.

Smear a little TackyWax on the end of the wrench before inserting the wrench in the hex head screw so it does not fall out inside the GC.

There are four screws which hold the circuit board



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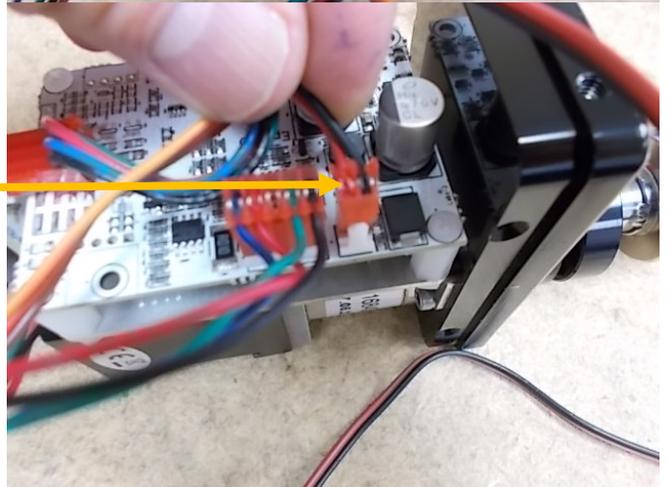
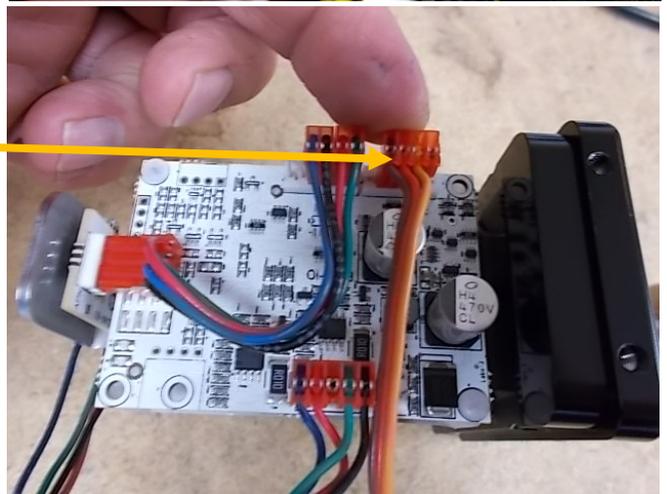
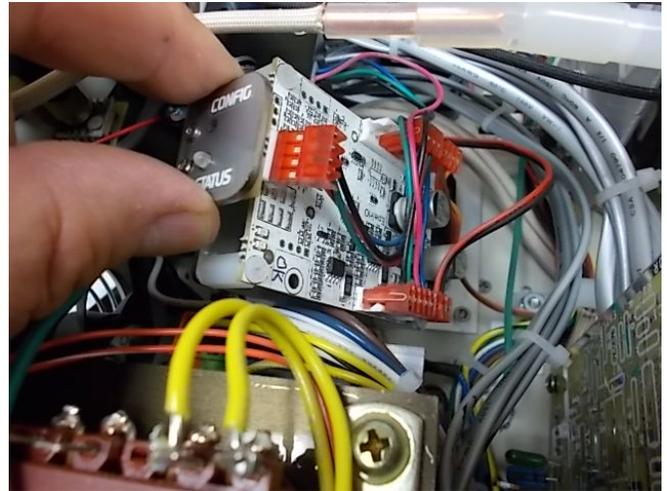
Once the 4 hex head screws are removed, you can wiggle the board a few inches clear so its easier to remove the wire connectors. Some of the wires may be secured with plastic tie-wraps which you can cut to give yourself more slack in the wires.

Remove the connectors with your fingers by rocking them gently from side to side while pulling up.

This connector has Red, brown and orange wires. These wires are the control wires which move the MEA from Load to Inject.

The connector has 4 positions but the mating jack may have 6 pins. If the leftmost and rightmost pins have not been removed, be sure to re-install the connector to the middle 4 pins.

This is the power connector with a red and black wire.



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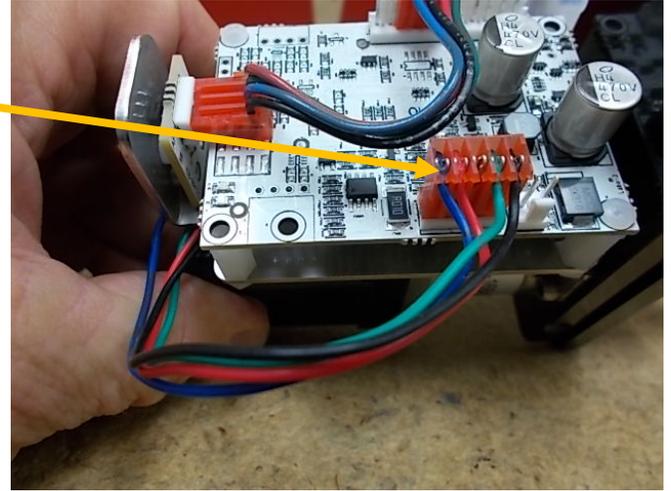
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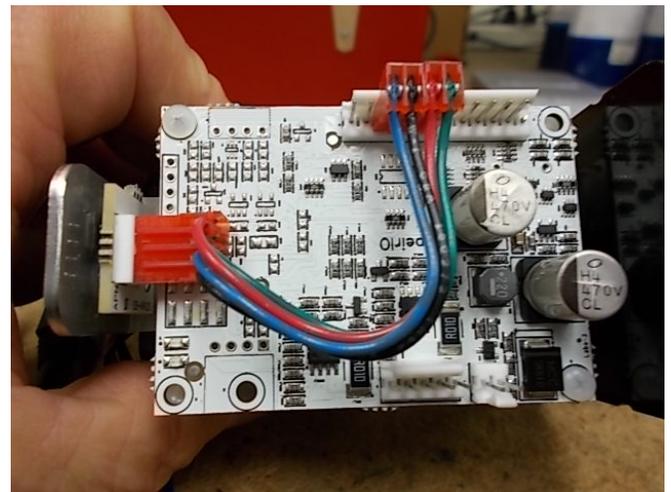
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This connector goes to the motor in the MEA.



With the 3 connectors removed, the board should look like this. The replacement board will look like this when it arrives.



Re-install the connectors on the new board and re-attach to the MEA. The connectors are keyed so they can't be installed backwards.



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