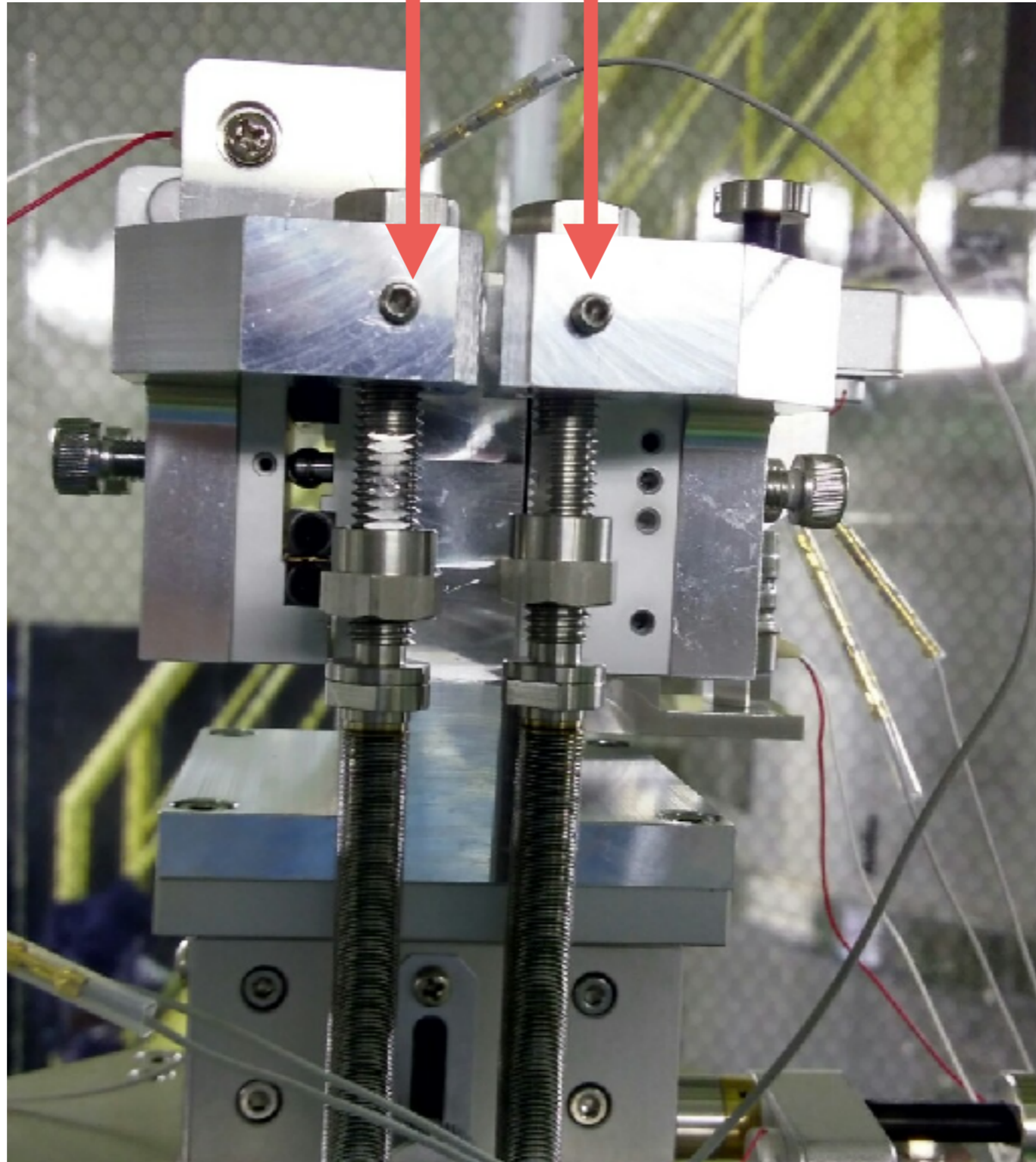


PROCEDURE TO CHANGE THE MIRROR

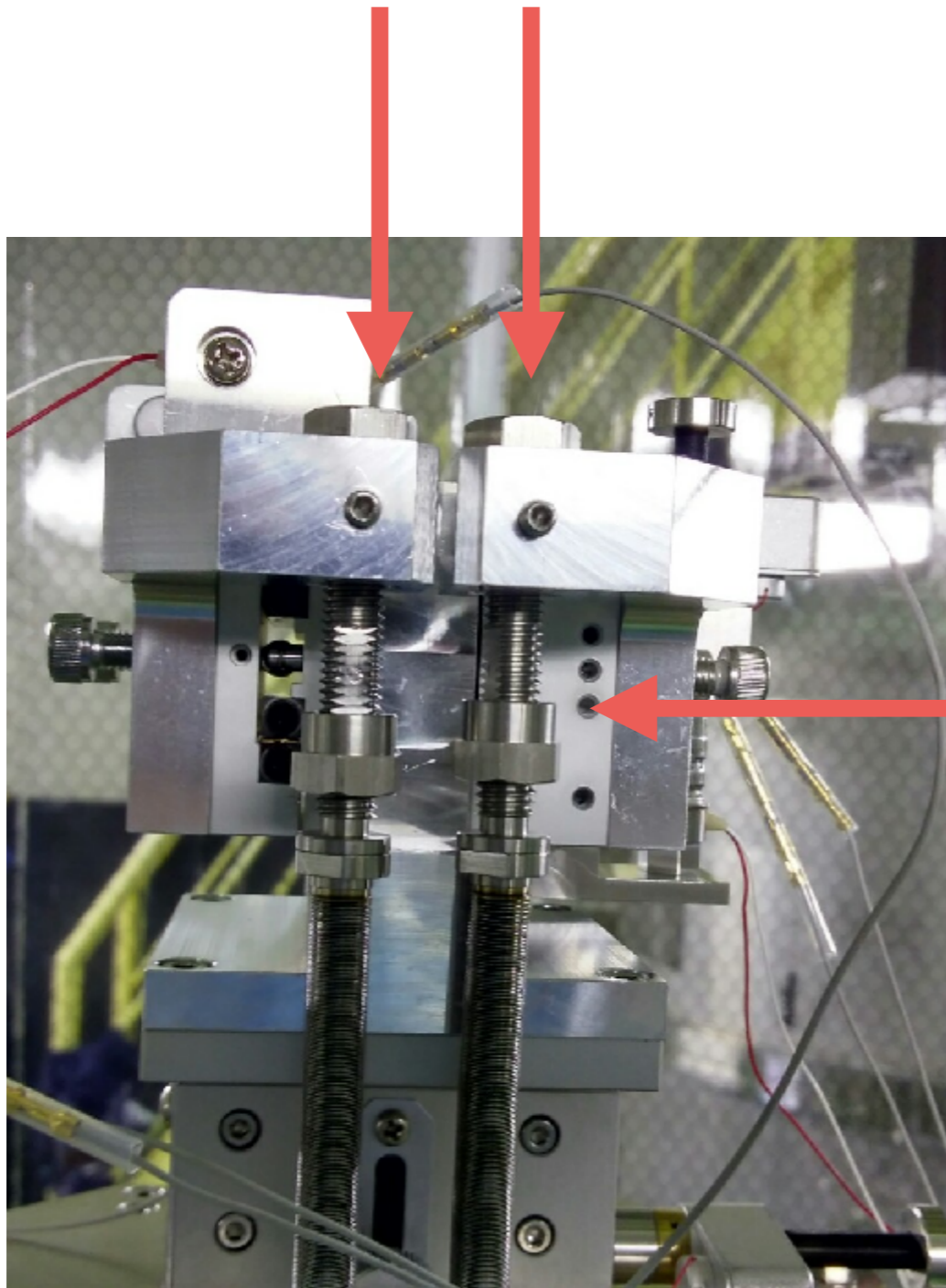
- 1) Fix the mirror with EQ stops.
- 2) Remove the coils.
- 3) Lift the plate to make the intermediate masses lay on it.



4) Unscrew the 4 small screws on the top.



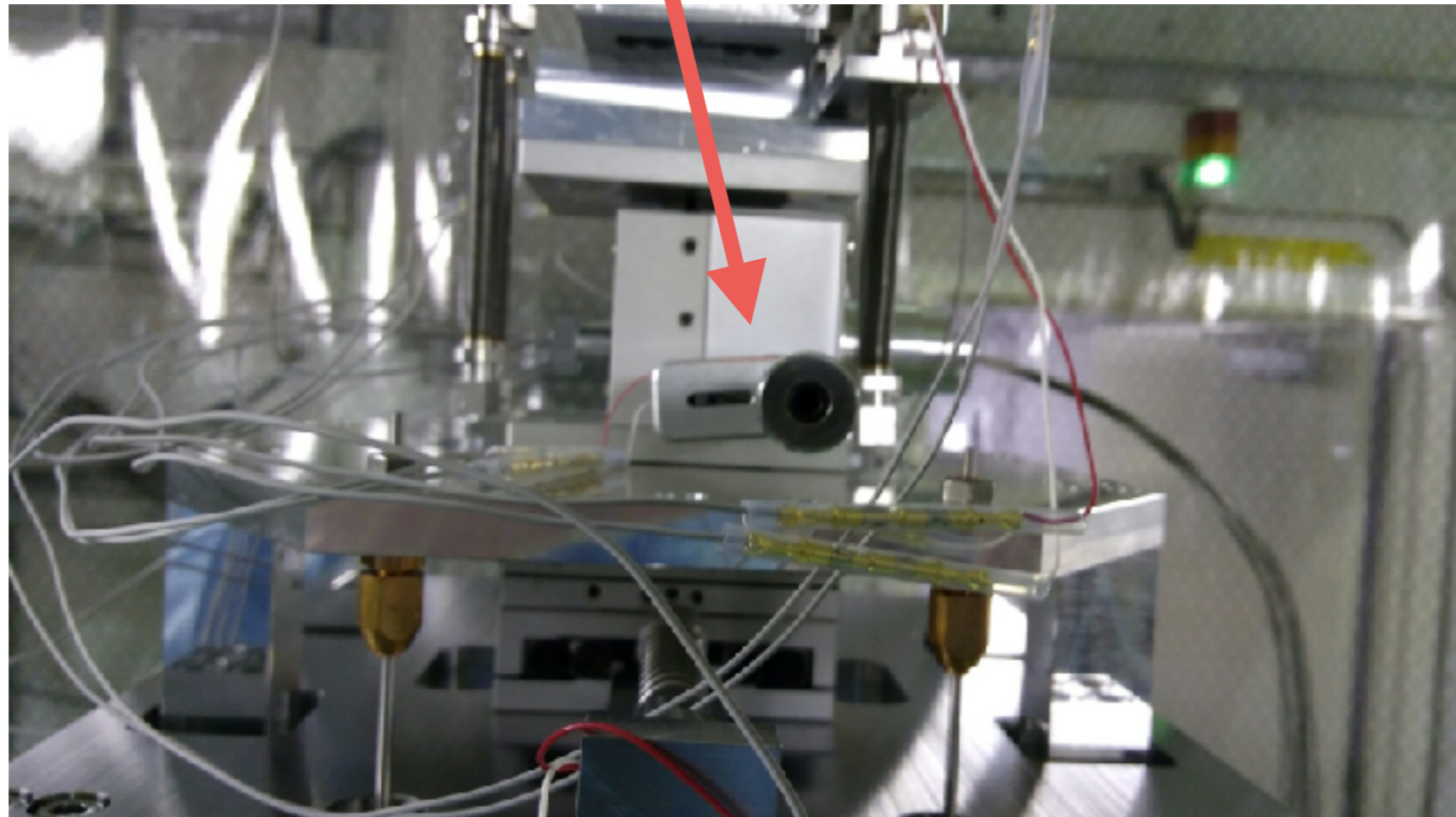
5) unscrew the 4 top screws to loose upper wires.



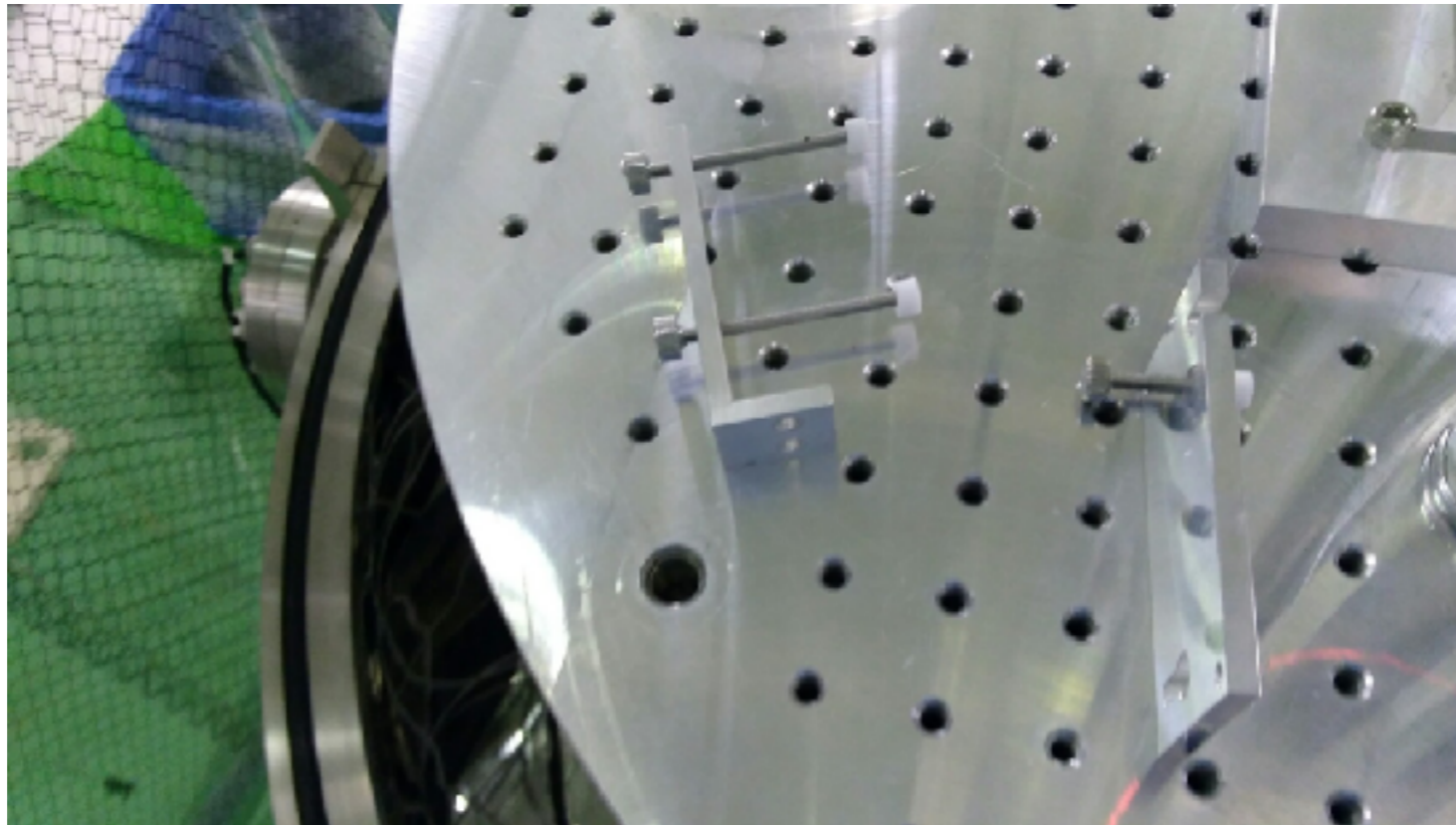
Keeping the lower part with the other hand in order not to twist the spring

6) Lower the plate holding the IM as much as possible (compatibly with upper wire to stay loose)

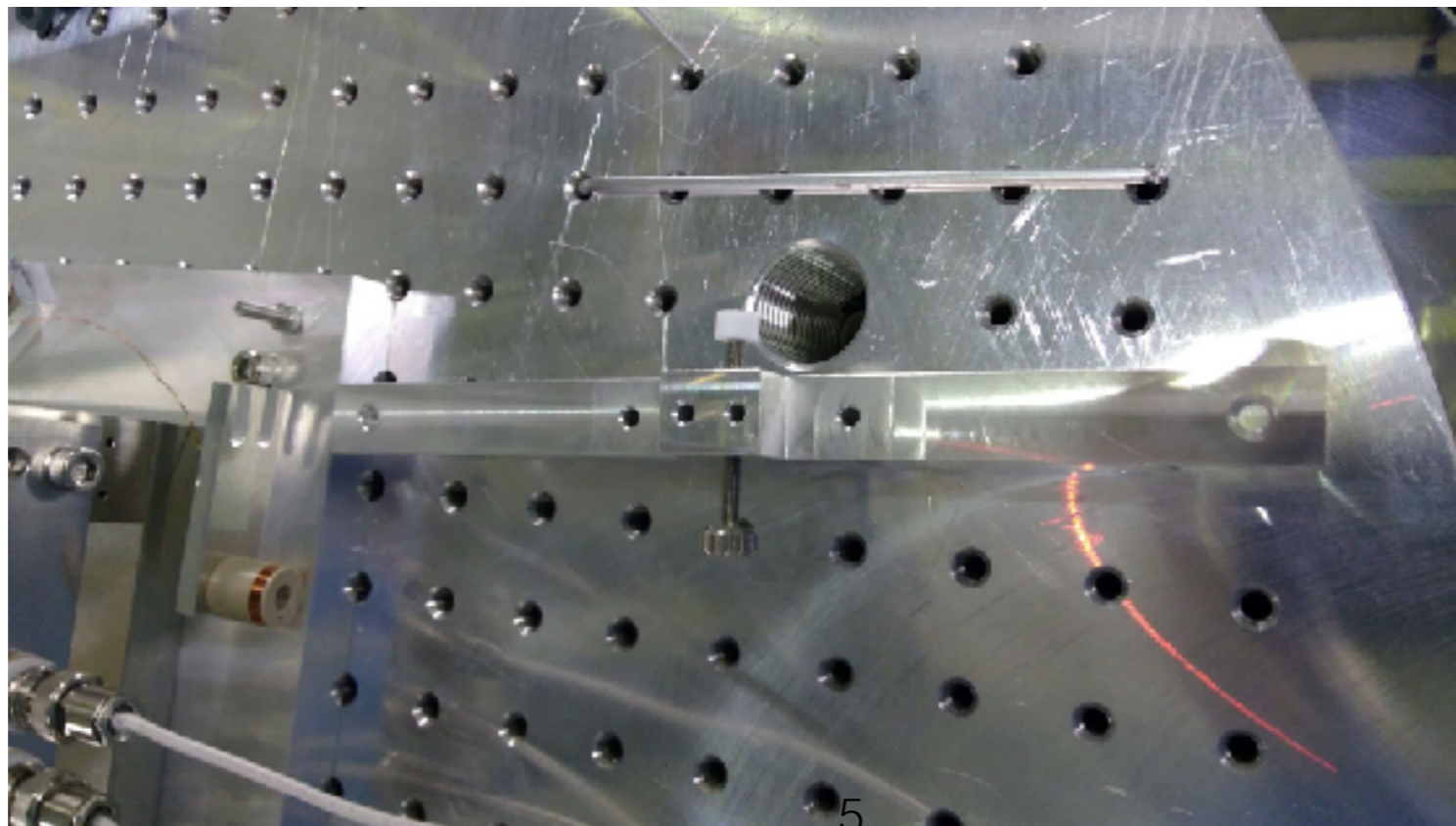
7) If need the suspension can be lowered using the picomotor for the vertical motion



8) Remove lateral and front support for EQ stop front stop and front bar



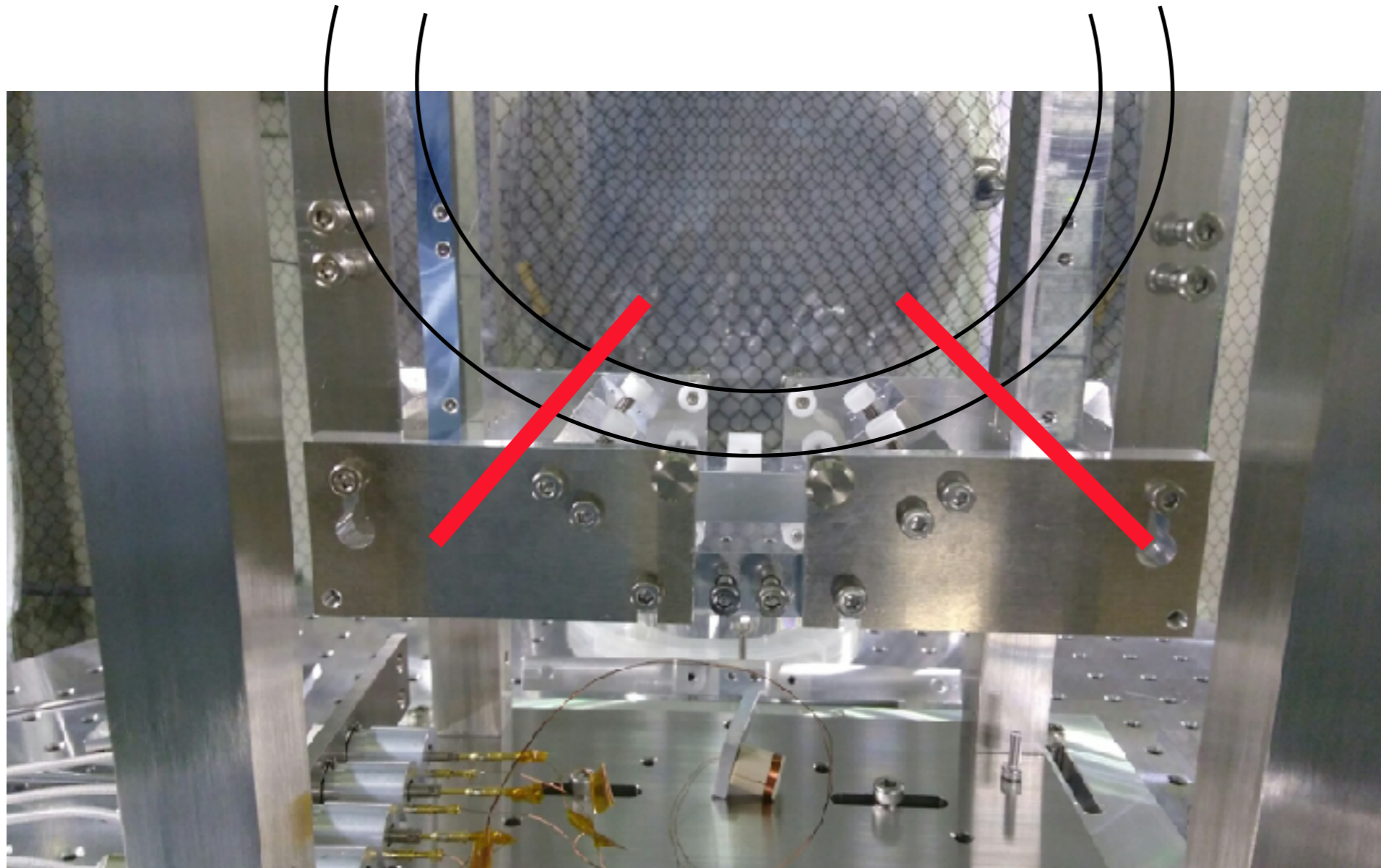
lateral and front support



front bar

9) Remove the mirror paying attention to the the wires (we have removed it from the front side but there is no strong motivation to do so)

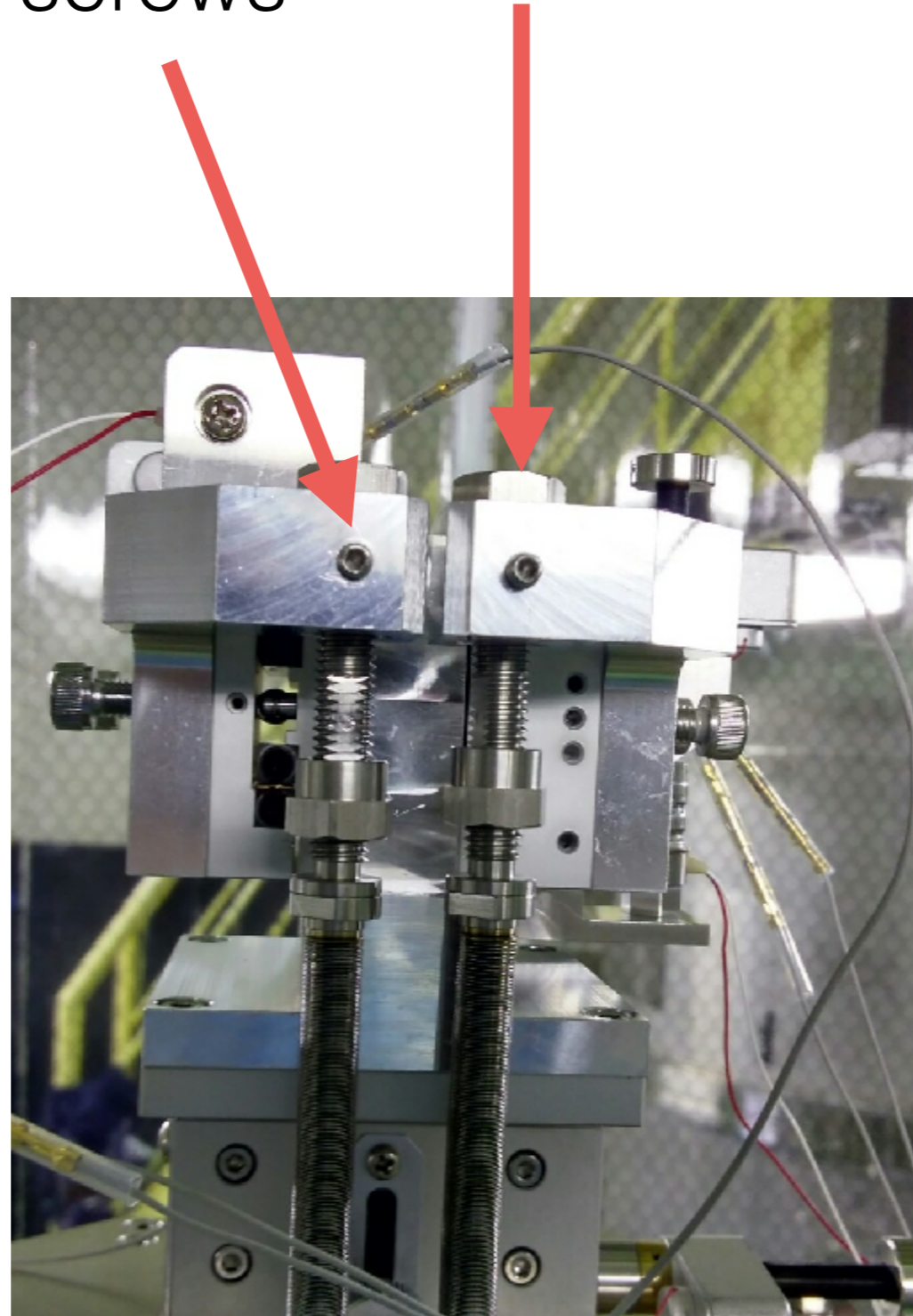
10) Before inserting new mirror the wire can be separated by using 2 Allen keys (hex keys) laying on the bottom frame. We also keep them apart with our fingers (one person at each side) to allow a third person to place the mirror avoiding wires to touch magnets and standoffs



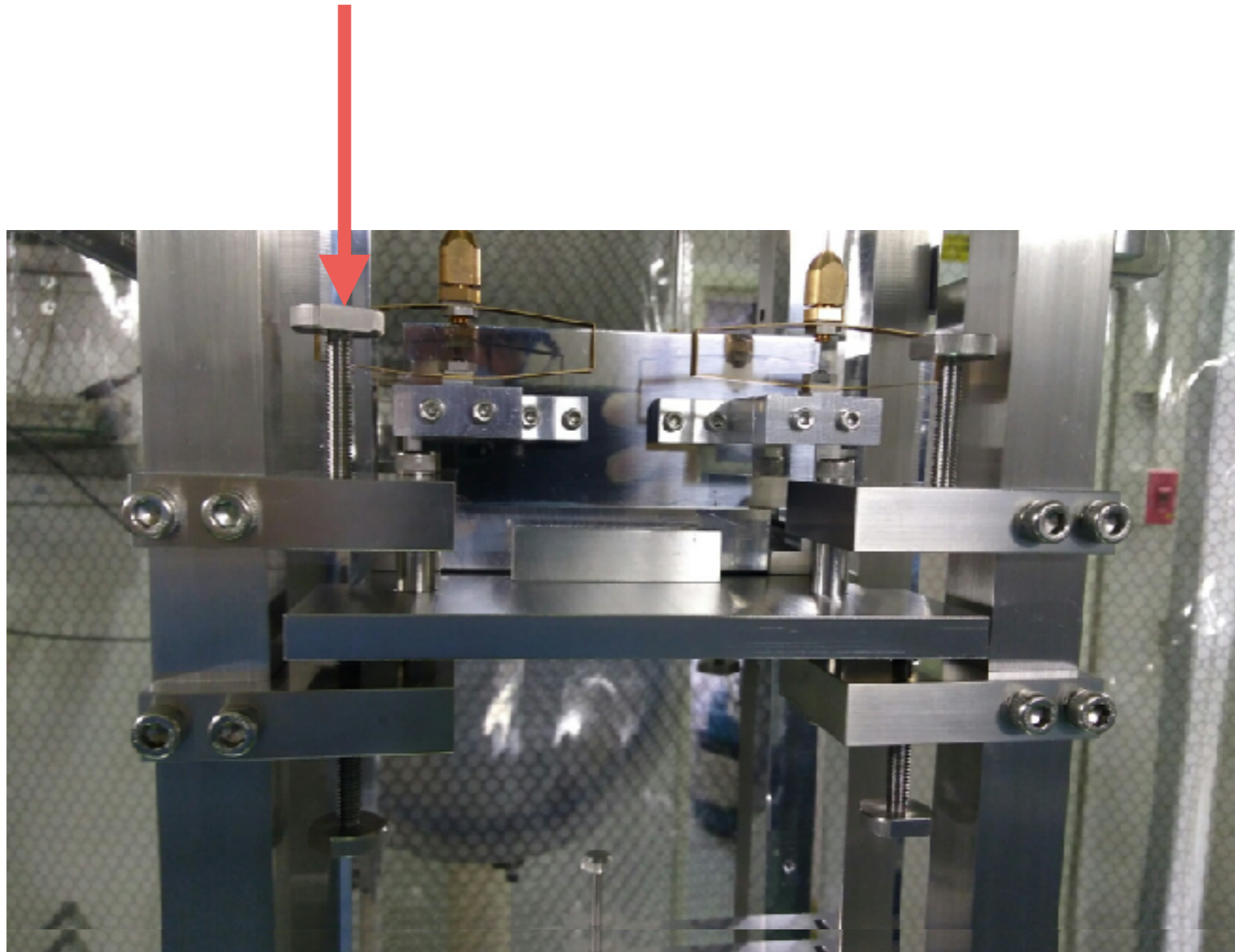
11) Once the mirror is in position, laying on the bottom EQ stops, put back front bar and front EQ stop supports. Wait to put back the lateral support to have more space to check if wires are well placed in standoff groove.

12) Lift the intermediate plate (with the intermediate mass laying on it) in order to put lower wires in tension. During this operation you need to pay attention that wires are correctly positioned in the standoff groove putting them in the right place if needed.

13) Screw the top 4 screws back in the initial position trying to have the same tension for each wire and screw the small lateral screws



14) Lower the plate to suspend the intermediate mass and fix it with top screw



- 15) Put back lateral support and release the EQ stop
- 16) Adjust the length of the top wires with the top screw to have the mirror axis as parallel as possible
- 17) Put back the coils, centering the magnets as much as possible.