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# Checking Scan piezo

## Symptomatics

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If the scan piezo doesn't show any activities when operating it via Matisse Commander software especially when scanning is not possible, one has to check the long stroke piezo itself. A piezo has to have a certain resistance and a certain capacitance. If the Scan piezo is OK, the resistance should be a couple of Mohm and the capacitance a few  $\mu\text{F}$

## Requirements

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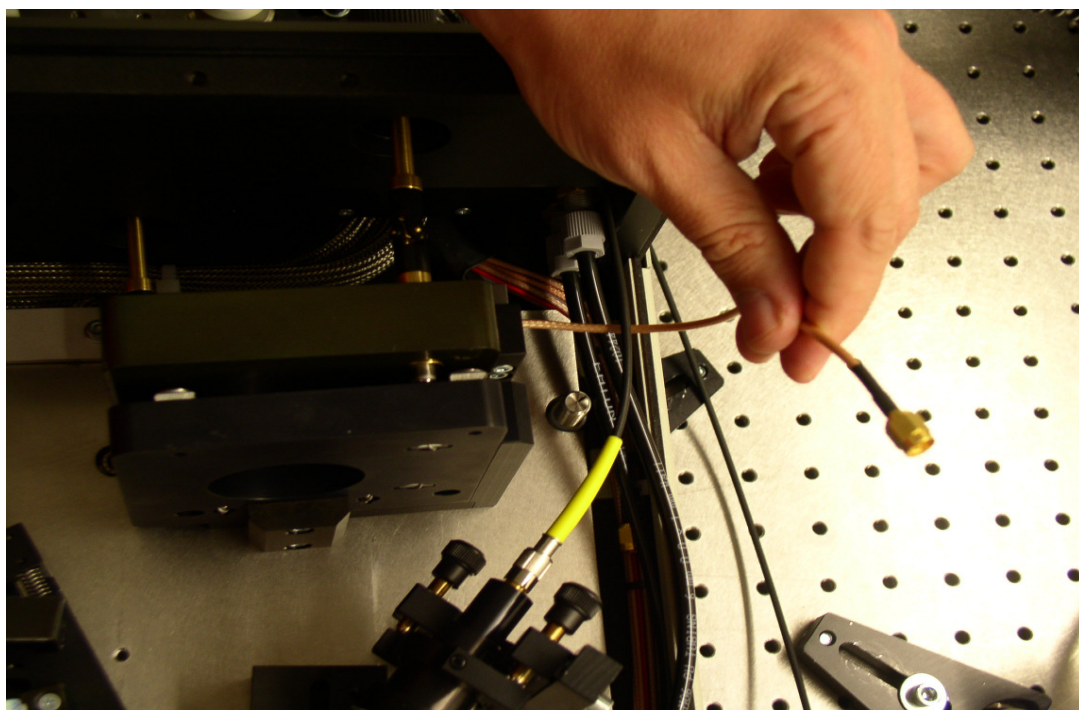
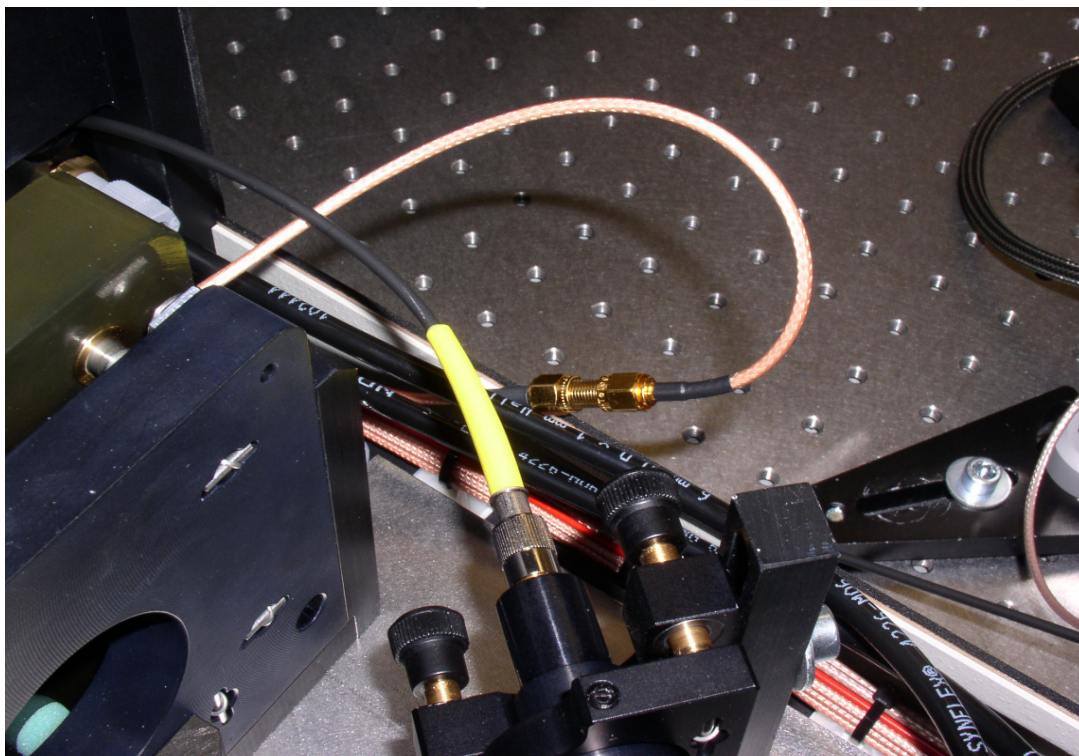
- Multimeter capable of measuring capacitance
- Fine measurement probes

## Procedure

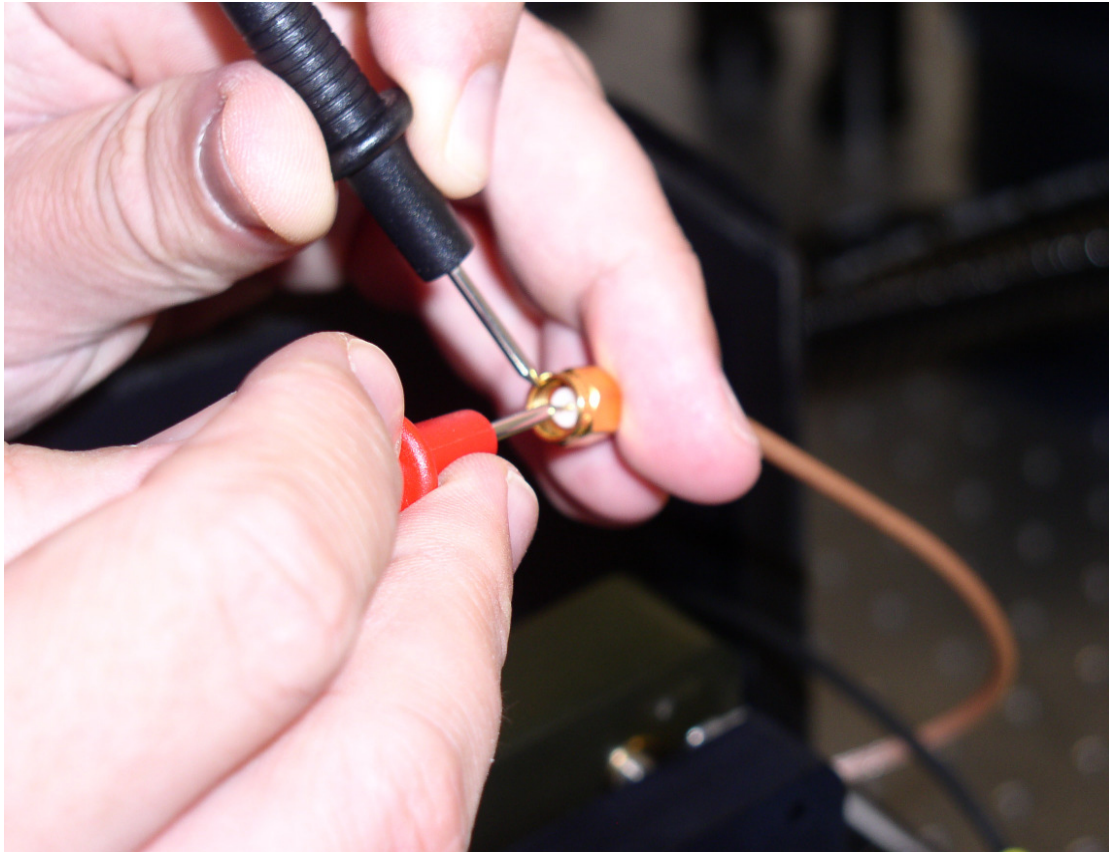
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1. If you see that while operating Matisse via software there is no activity on the Scan piezo, please verify that all switches on the electronic box are set to "Internal" position. If one of them was on "external" switch it back to "internal" and try again to operate Matisse.
2. In case that even when all switches have been put to "Internal" and no activity on the scan piezo is detected, switch off Matisse electronic box and open both cover parts from the Matisse laser head.

3. Open the cover of the Matisse laser and disconnect the SMA connector between the scan piezo and the cabling of the Matisse.



4. Measure the resistance and capacity on the slow piezo side.



The resistance should be around 1 MOhm and the capacity should be around  $5\mu\text{F}$  for the scan piezo! Please remark that the capacity value is slightly different from the refcell piezo!

Report the result to a Sirah engineer