

**Work instruction Number 172**
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**Purpose:** Cleaning Measure sensor

**Safety:** *Bio Hazard area*
**Instrument:** Starrsed

**Revision:** 002, February 2014

Remove of the top cover

1. Switch Instrument **OFF**.
2. Remove the two rear screws of the top cover.
3. Lift the top cover carefully from the ESR unit.

If the measure sensor is out of range, the sensor must be cleaned. In order to clean the measure sensor remove the pipette at the measuring position (complete with top and bottom clamp). For cleaning use a cotton bud dipped in deionised water or aerosol air blower, make sure the cotton bud is just damp. Do not use any organic solvents.

Pipette removal

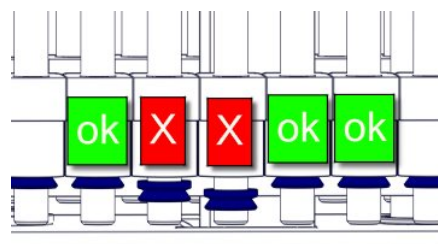
1. Push and pull vertically the pipette from the holding position of the belts.
2. Take pipette off the carousel.
3. Store the pipette on a safe place.


 Switch instrument **ON**

1. Carefully clean the inner part of the measuring sensor by using a cotton bud.
2. Check the values of the Measure sensor MS  $.50 \pm 10$  by using the CHECK MEASURE SENSOR function.
3. If not in range repeat cleaning the inner part of the measuring sensor.
4. When in range switch **OFF** the instrument.

Pipette installation

1. Hook pipette assembly on to the pipette belts.
2. Make sure that pipettes are correctly fitted on to the pipette belts.
3. Visually check if all pipette valves are at the same height.
4. Visually check the bottom of the pipette V shape ring.
5. Incorrect fitted pipettes may cause **mechanical damage** to the instrument.
6. Check for leakage with **Fill & Clean**.



Replace the top cover:

1. Put the cover carefully over the ESR unit.
2. Fasten the two rear screws of the top cover. (If present/if needed). Switch **ON** the instrument