

Disassembly of a 1232 Oxygen Probe



1232 500mm 253MA Oxygen Probe



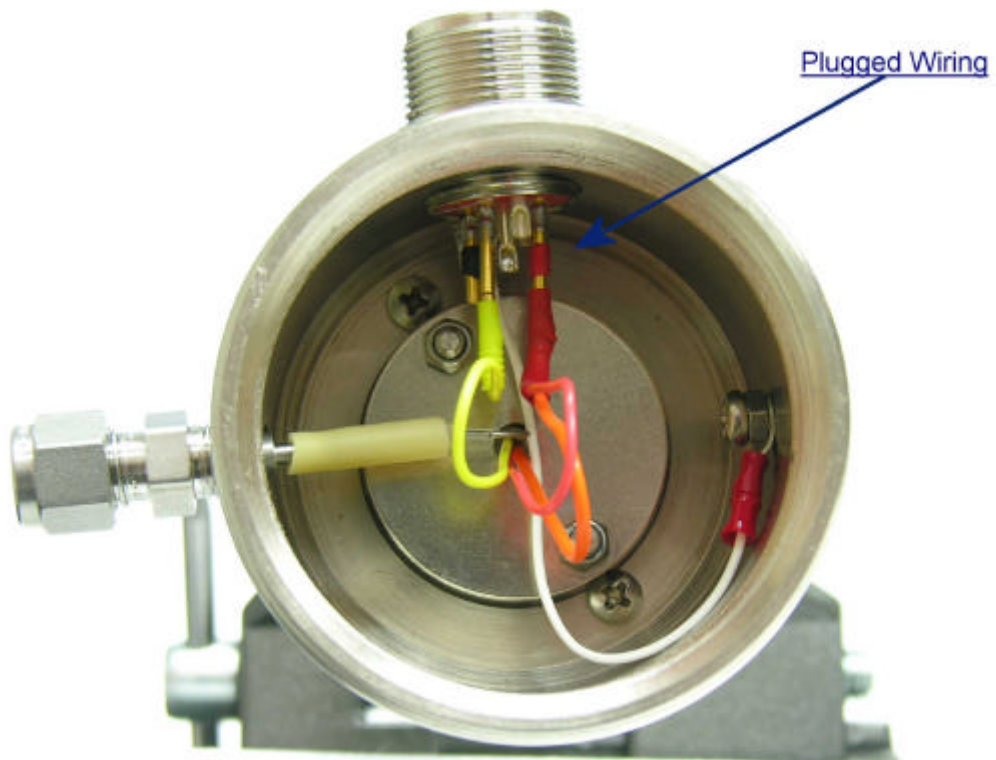
1.0 DISASSEMBLY PROCEDURE



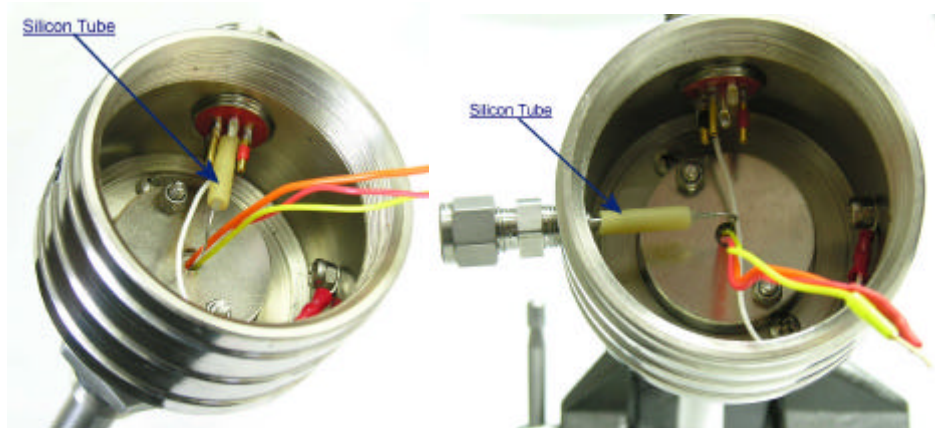
- 1.1 Remove the calibration port fitting. This could be 1/8" NPT plug or male connector if purge air or calibration gas is used.



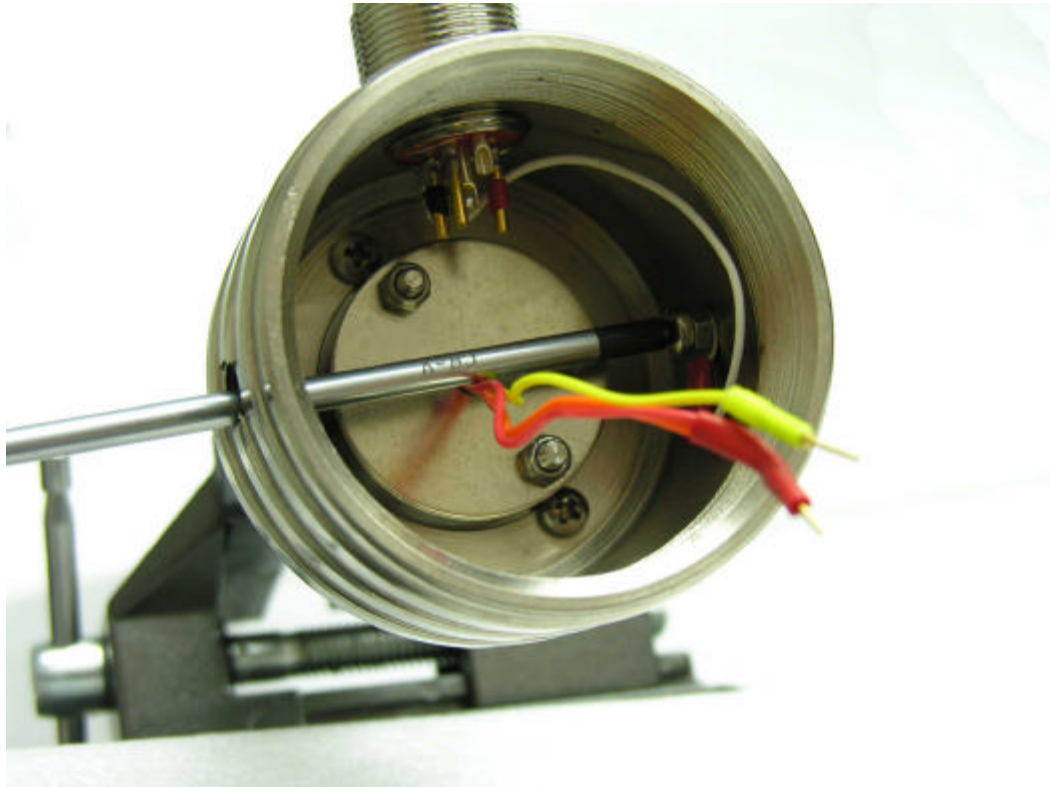
- 1.2 Remove the castellated lid on the probe head. Use the shank of a suitable spanner or a square cross-section bar



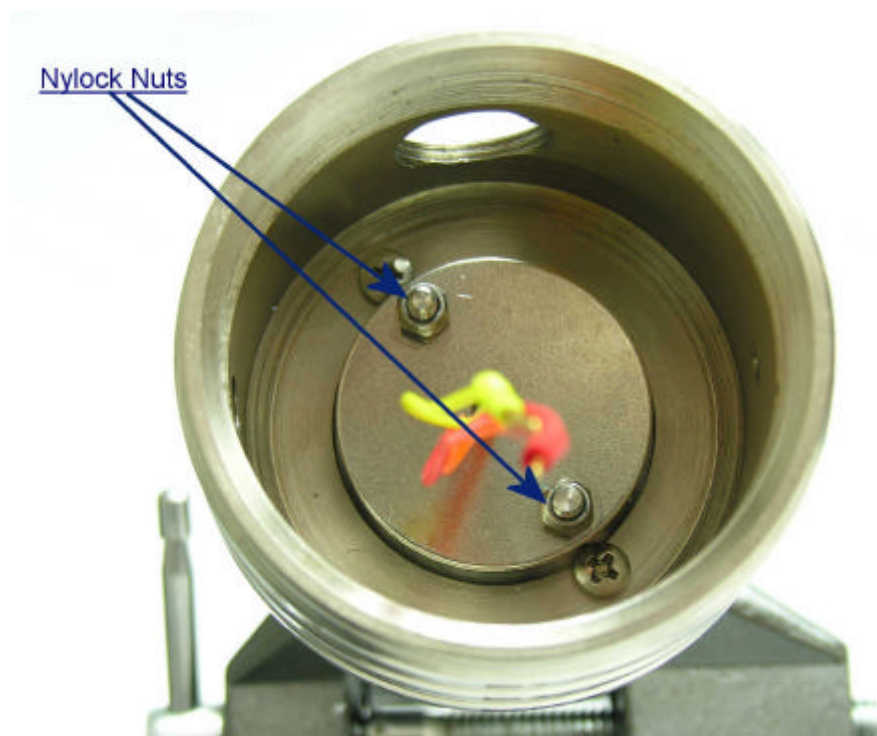
- 1.3 Unplug the wiring from the head connector. These are the probe positive, thermocouple positive and thermocouple negative. The thermocouple is optional in the 1232 probe.



- 1.4 Remove the silicon tube from the hypodermic that runs through the head connector or from the barb on the external reference air connector. (Gently work the silicon tube to get this off)



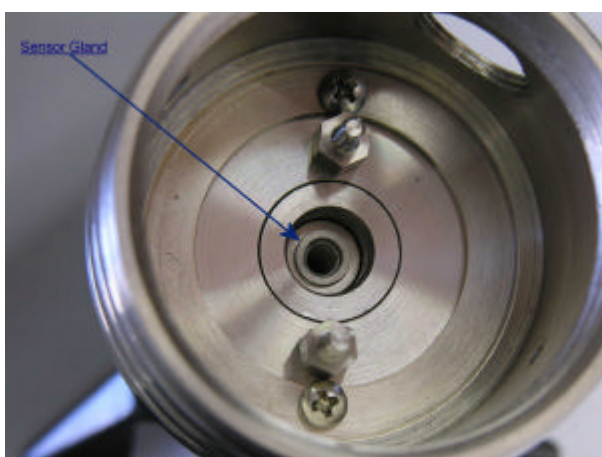
1.5 Remove the earthed wire inside the head (O_2 -ve) and remove the head connector.



1.6 Evenly remove the two nylock nuts holding down the compression plate. This will remove the spring loading on the four-bore insulator and the sensor.



- 1.7 Carefully remove the four-bore insulator containing the thermocouple and probe positive conductor.
 - a) Inspect for damage to the ceramic insulator.
 - b) Check the conductors for damage or oxidation.
- 1.8 Remove the sensor compression spring from the gland on top of the sensor.



- 1.9 Using long nose pliers, carefully remove the sensor gland and the sensor from the probe sheath.
 - a) Inspect for damage
 - b) Check the state of the sensor's catalytic electrode material

Reverse this procedure for reassembly.

Note: Wipe a small amount of o-ring grease (such as Molykote FS3451) around the top of the sensor and outer o-ring on the sensor gland before re-installing the sensor and gland.