

Main (Part 1) Service Overview - PX4000

Before any service is performed, a full system calibration is performed insure the system is functional.

The O2 Cell should be warm and the sealed packet opened prior to the service visit.

1. Remove the orange GEMTech from the GEM Head.
2. First change the Blue & Yellow balloon assemblies in the GEM head, and exercise the balloons with the supplied syringe.
3. Now change the 3 x GEM Valve "O" rings, and One way exhalation valve fitted on the right side of the GEM Head.
4. **SWITCH THE UNIT OFF.**
5. Unscrew the cart and remove the GEM (Gas Exchange Module) from the cart. Fit a mains extension lead to the GEM.
6. Now change the Nafion Tube and filter from the rear of the GEM.
7. Check / Clean the Source and connector.
8. Fit a new O2 Cell
9. Check / Adjust the Gas pressures to 43 psi.
10. **SWITCH THE UNIT ON**, and allow it to warm up (30 - 45 minutes).
11. Go into PlusRA, Sdasa-0 / Sdasa-1, Acquisition , Sample GEM MGA, Check Channels 4 & 5 (GMFL & GMLn = 0.0).
12. Now select, Sample GEM BP TMP, Check Channel 2, (GMTemp 0.23 will be 23 oC).
13. Now adjust the flows using PlusRA. Purge >4.8 ltr, Sample >1.4 ltr (O2 Off), Compare Sample in PlusRA Software 2.3 ltr
14. While in PlusRA Calibrate Co & CH4, and CO2 & O2.
15. Exit PlusRA, refit the orange GEMTach, and go into the main KoKo calibration screen. Perform a full system calibration.
16. Refit the GEM outer case, and fit back into the cart. Connect the carts mains lead, and wait for the unit to warm back up.
17. Perform another full calibration followed by a biological control test.