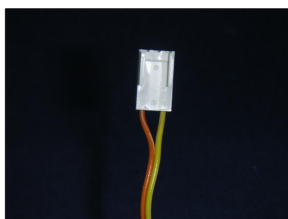


VANDAGRAPH SENSOR TECHNOLOGIES		
Company OPERATING PROCEDURE		
Oxygen Sensor manufacture		
R-22AEX Expedition Sensor		
VM3/COP/40.47		
Date: 30-Sep-03	Revision Date: 18-Apr-11	Issue 1
<u>Only to be attempted by trained personel</u>		
Used in Oxycheq Expedition Monitor Pt Number OA-3 440006		



Parts Required			
Quantity	Description	Part No.	
1	R22 Sensor (R-22MED: R-22A: R-22BUD are all equivalent) R-22A 1st choice		
2	Pins Farnell 143-116	9071046	
1	Shell 3pin Farnell 143-093	9071033	
1	Red wire 5 cm or Red	9070130	
1	Black wire 5 cm	9070131	
1	Pre-assy (above 4 components)	9070110	
2	Serial number Labels		
1	Serial number Label for Outer bag		
1	Polythene Bag (outer)		
1	Gas Barrier bag		

Warning Use Soldering Iron set at 300C Do Not overheat the PCB on the Sensor
Method.



1. Open the packaging and remove the O₂ sensor.
2. Check the O₂ sensor for damage and signs of leaking electrolyte.
3. Remove excess outer case unto level of PCB. VM3COP40.11
4. Remove the Molex and connect wires
5. Connect Black & White wires
6. Pay attention to wire positions on the PCB Black to BLK: White to RED
7. The lock position on the molex
8. The center is left unconnected
9. Flat side of molex White to the LEFT
10. Label sensor with R-22AEX
11. Wait until sensor cools to room temperature
12. Test for output 7-13mV.

13. Can be tested in Expedition analyser
14. Add R-22AEX label to sensor,& bag
15. Reseal in serial numbered gas barrier bag
16. Ensure the O₂ sensor is booked out in the stock books.

(*). If the O₂ sensor fails the output specification test, it should be replaced in it's original packet and re-boxed. It should then be placed in a docket and given a Repair sheet, tested and returned to supplier under the correct procedures.