

VM3COP40.13 R-33DE Oxygen Sensor Production Procedure

Parts list		
Qty	Description	Part No.
1	Oxygen sensor – R-33S1	0110132
1	2 pin JST connector	9071014
1	Anti-static gas barrier bag	0150000

Tool list
Soldering iron
Wire cutters
Stanley knife
Super glue
Small pliers

Production:

- 1) Remove the R-33S1 Oxygen sensor from the gas barrier bag.

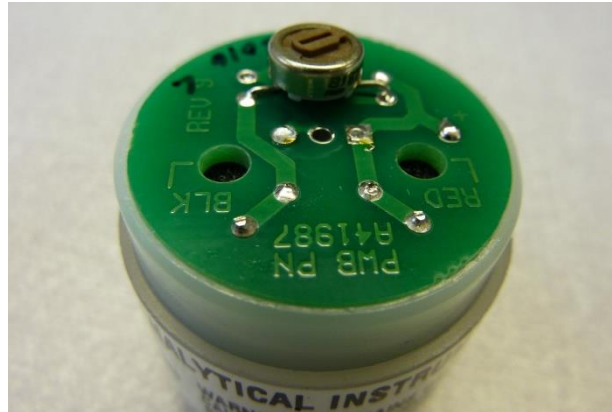


- 2) Using a soldering iron, remove the black and red wires.

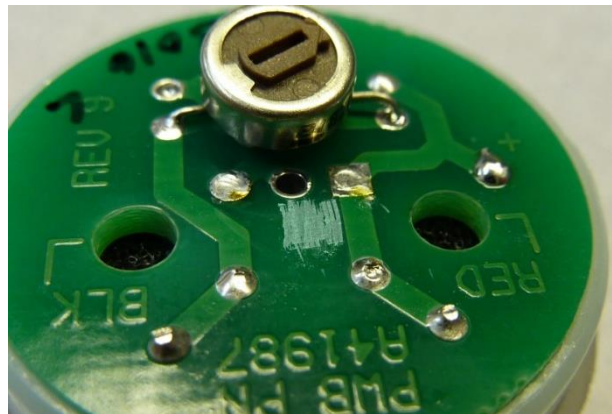


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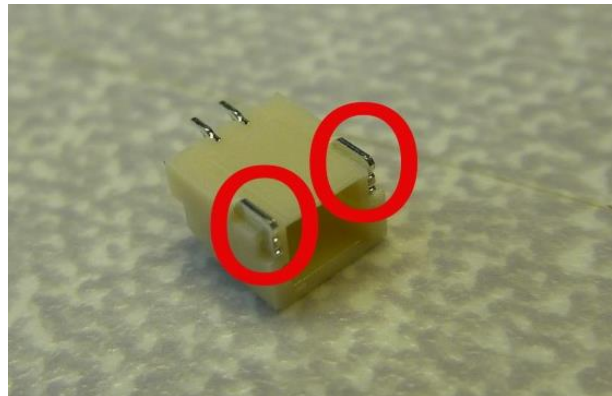
- 3) Ensure that the PCB is free from any excess solder or residue.



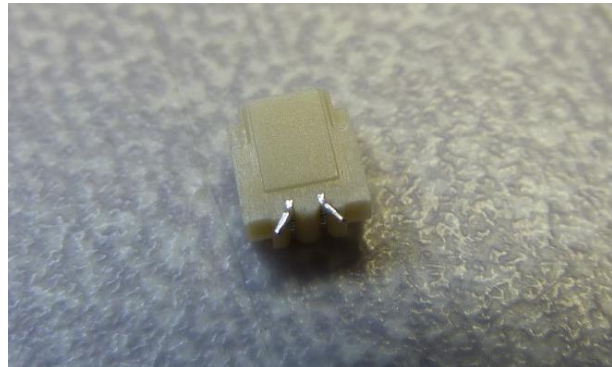
- 4) Using the flat edge of a Stanley knife, remove a small area of surface lacquer from in front of the solder contacts.



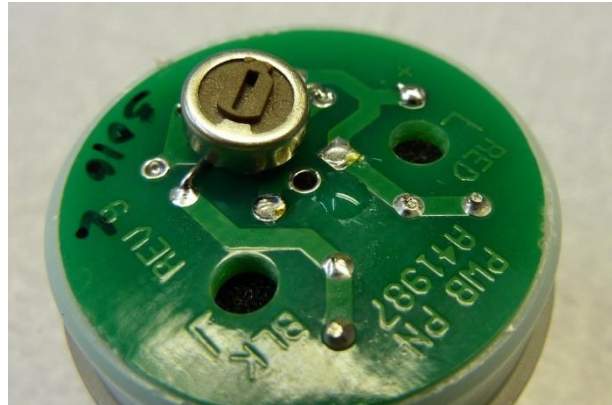
- 5) Using small pliers, remove the marked contacts.



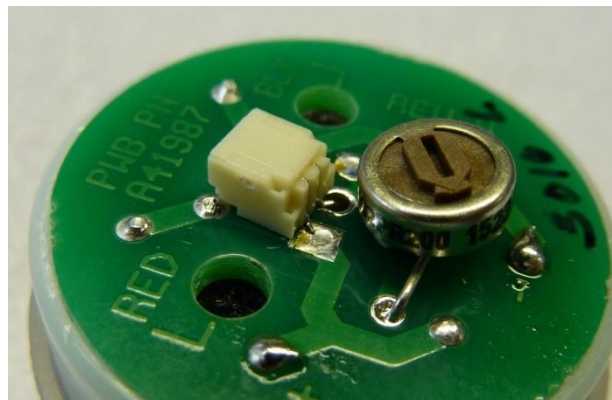
- 6) Splay the solder contacts to around a 30° angle.



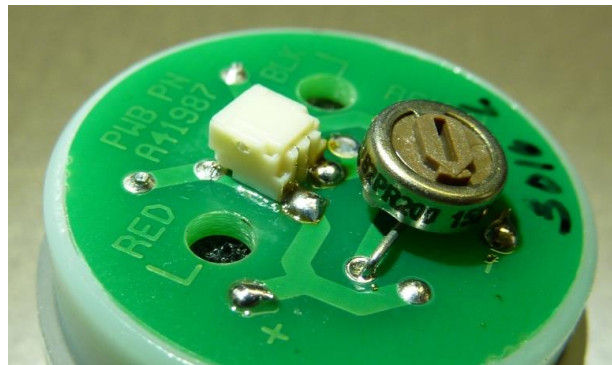
- 7) Place a drop of super glue on to the de-lacquered area of the PCB.



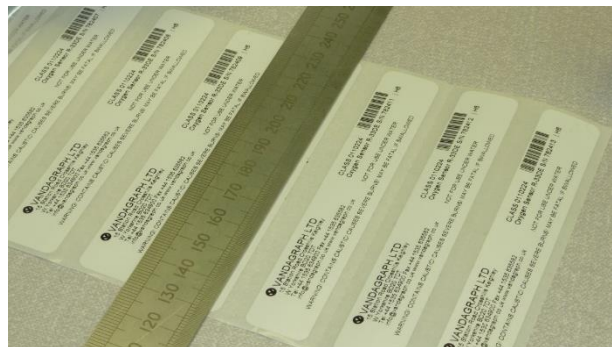
- 8) Place the JST connector on to the super glue, ensuring that the connector contacts align with the contacts of the PCB.



- 9) Solder the connector into place.



- 10) Using a Stanley knife and steel rule, remove the excess from the bottom on the serial number label.



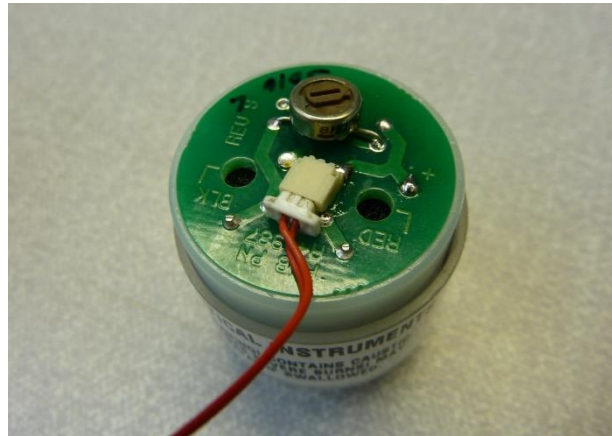
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- 11) Remove the Teledyne label (R-33S1) and replace it with the Vandagraph (R-33DE) label with the same serial number.

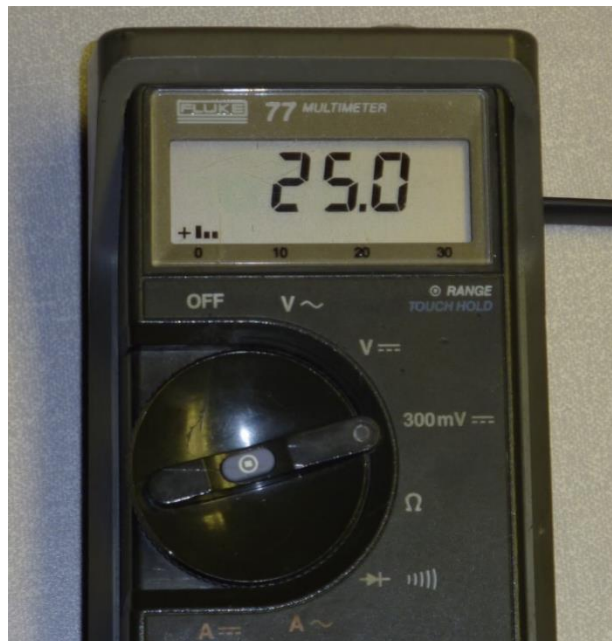
NB. To ensure retention of the original serial number, each sensor should be done individually.

**QA:**

- 12) Using the appropriate test lead, connect the sensor to a digital volt meter.



- 13) Set the digital volt meter to the millivolt scale.
- 14) Observe the output of the sensor.
The output must be between 23mV and 27mV.
- 15) Using the Intrastats system, mark the sensor as having passed or failed QA as applicable.



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Packing:

- 16) Take a sensor that is to be packed, note its serial number, and affix that corresponding bag serial number label to the bag.



- 17) Place the sensor in the bag.
- 18) Using a strip heat sealer, seal the sensor into the gas barrier bag.
- 19) Once passed, place the finished product, along with the production sheet, on to the production shelf to await stock entry.

