

Gunson®

Gastester Digital

Supplementary adjustment procedure

Part No. G4125

Instructions



Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.

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G4125 Supplementary adjustment procedure

The procedure described below should only be used when the Gastester cannot be adjusted to show the normal pre gas test reading of 2.0%

Only if the Gastester displays the symptoms described in section 4 below should this procedure be used.

It should also be noted that damage caused to the Gastester during this procedure is entirely at the operator own risk. If in doubt please return the unit to your supplier for calibration and testing.

Pre-test set-up (as described in G4125 instructions)

1. Place the Gastester on a level, vibration free surface.
2. Connect to a 12 volt source and allow the Gastester to warm up for a minimum of 15 minutes.

Note: Do not connect the pick up pipe. Do not expect to hear the pulse pump clicking. The pulse pump used on the Gastester only pumps when the pick up pipe is connected to the exhaust pipe. It is the pulses of the exhaust gas that make the pulse pump work.

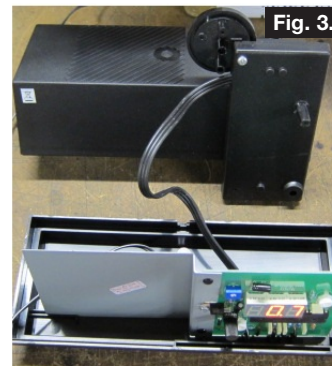
3. After the minimum warm up period of 15 minutes adjust the external calibration control to achieve a reading of 2% CO on the display.
4. If the display adjusts correctly and remains stable the Gastester should function correctly and no further adjustment is required. If the reading can not be set to 2% CO but the reading is stable then follow the procedure given here.

Supplementary adjustment of back ground reading (2.0% CO):

1. Disconnect the Gastester from its power source and turn the upside down. Remove the central fixing screw as shown in Fig. 1.
2. Place the Gastester back on its base and remove the top as shown in Fig. 2.



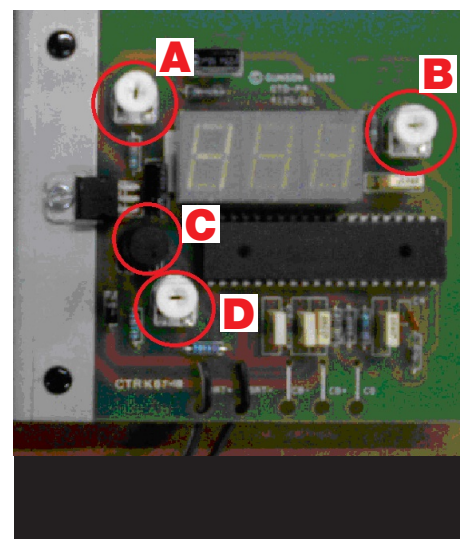
3. Remove the front panel to gain access to the adjustment controls as shown in Fig. 3.



Warning: do not touch or adjust controls A and B.

4. Connect up the Gastester and allow the reading to stabilise. Allow the tool to fully warm up for a minimum of 5 minutes.

NB: During the adjustment process ensure the pump unit and circuit board remain still and vertical as shown in Fig. 3.



5. Turn adjuster (C) fully ANTI-CLOCKWISE (to the left).
6. Adjust (D) until the display reads Zero
7. Turn adjuster (C) fully CLOCKWISE (to the right) and make a note of the reading on the display.

It is now necessary to calculate the ZERO POINT for the Gastester.

Use the following equation to calculate:

Where X = reading from point 6 above
Take X and divide by two, then subtract two, this equals the ZERO POINT

$$\text{ZERO POINT} = (X/2) - 2$$

8. Now turn adjuster (C) until the display equals the ZERO POINT
9. Turn adjuster (D) until the display equals 00.0

This completes the calibration process for the Gastester.

Disconnect the power cables and put the casing back together in reverse order.

Reconnect and follow the instructions for use including adjusting the display to 2.0% after the initial warm up period.

Note: 2.0% is the background level for CO₂ in the atmosphere.

The above process calibrates only when the reading is stable. If the reading continually fluctuates the machine will need to be returned to the Tool Connection Ltd for test and repair.