

Accuracy Check: RBT IV

Using a .038 Alcohol Gas Tank and 1.5 liter-per-minute regulator.



Step 1: Attach Regulator

Follow instructions on the Alcohol Gas Tank to attach the regulator.



Step 2: Purge Regulator by pressing button/valve on regulator for approx. 8-10 seconds before running your first accuracy check of the day.



Step 3: Determine Gas Value by reviewing the elevation chart on the tank to calculate the alcohol concentration for the 0.038 tank at your elevation. The value can also be determined more easily by utilizing a True-Cal device.



Step 4: Start Accuracy Check Procedure

Press the **ON** button on the RBT IV.

Press the **STAND.** button (#3) to initiate Accuracy Check sequence. The display will ask you to verify the time, then the date.



Step 5: Enter value of gas standard

The RBT IV will now ask you to enter the 3-digit value of the gas standard you are using. (for ex: for a .038 value enter **0-3-8**; the RBT IV will insert the decimal automatically). Press **ENTER**.

The RBT IV will then prompt you to verify the value. Press **YES** if correct. Press **NO** if the value needs to be re-entered/corrected.



Step 6: Turn on Alco-Sensor IV

Turn on the Alco-Sensor IV handheld unit by securely inserting a disposable mouthpiece.

The Alco-Sensor IV handheld must be properly connected to the RBT IV unit during insertion.

**Step 7: Observe Alco-Sensor IV prepare for an Accuracy Check**

Once the mouthpiece is inserted, the handheld screen will display the temperature, "</>", "Wait", and then will flash "CHEK".

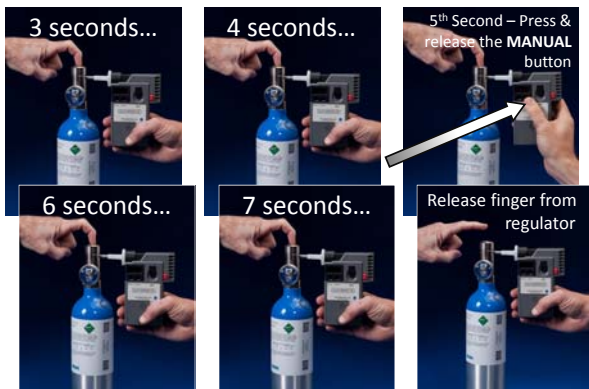
**Step 8: Attach Alco-Sensor IV handheld to regulator**

Securely attach the AS IV handheld unit via the mouthpiece to the tube on the tank regulator.

**Step 9: Start Gas Flow**

Press the regulator button for 7 seconds.

On the 5th second, press the **MANUAL** button to take the gas sample.

**Step 9 cont'd: Start Gas Flow****Additional Note on Gas Flow**

NOTE 1: Gas must be flowing through the mouthpiece during the entire 7-second process, therefore continue pressing the tank regulator button for another 2 seconds **AFTER** you press & release the **MANUAL** button during the 5th second.

Step 10: Observe Reading

Once the sample has been taken, the handheld will momentarily flash "<" and ">", then will display the 3-digit reading for several seconds.

The handheld will then flash "SET". Press the **SET** button, then press the **Red Ejector** button to eject the mouthpiece, which will turn off the instrument.

Once the mouthpiece has been ejected, the RBT IV will print the results of the Accuracy Check. The Operator may now access any of the RBT IV menu options.

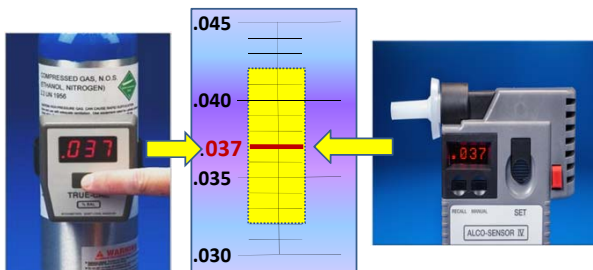
Step 11: Interpret Results

Results within +/- .005 of the elevation-adjusted value of the Alcohol Gas Tank are acceptable.

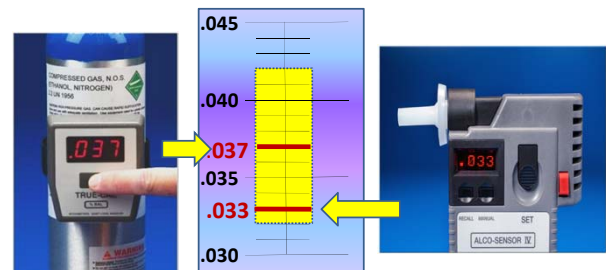
The RBT IV is reading accurately.

(see next 3 slides for acceptable readings)

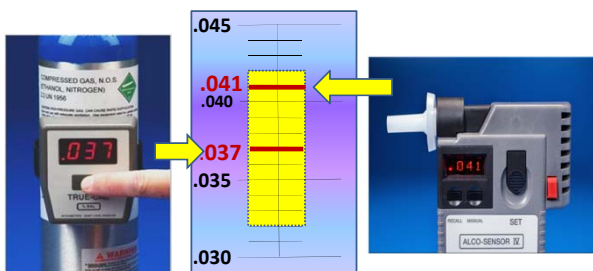
Acceptable Tolerance



Acceptable Tolerance



Acceptable Tolerance

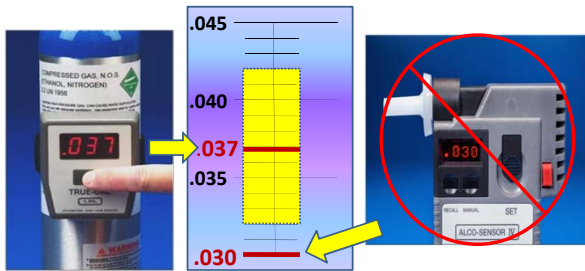
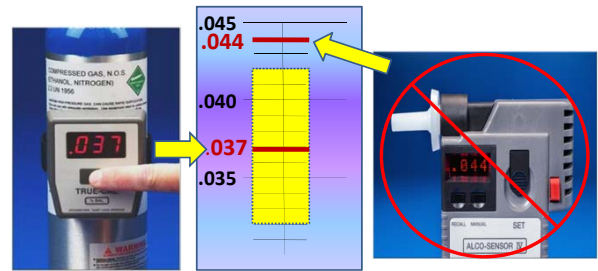


Step 11 cont'd: Interpret Results

Results that are **NOT** within +/- .005 of the elevation-adjusted value are out of acceptable tolerance.

The Operator must perform a Calibration Adjustment.

(see next 2 slides for unacceptable readings)

NOT Acceptable !!**NOT Acceptable !!****Step 12: Record Results**

Record every Accuracy Check result in a Calibration Log to document the accuracy of the RBT IV.

For technical assistance and to order calibration supplies:

AlcoPro, Inc.
800 227-9890
www.alcopro.com