Calibration Procedure:
Alco-Sensor FST
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.

%BAC
0.037

Step 4: Attach mouthpiece
Securely attach disposable FST mouthpiece to FST instrument.

Step 5: Access Maintenance Menu
Turn on FST by holding down **OFF** button (under thumb) and **ON** button (under index/trigger finger) for a few seconds until screen displays "RCL".
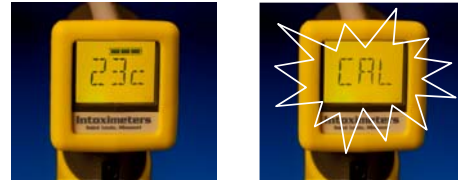
Step 6: Put FST in Calibration mode

by pressing the **ON** button (trigger finger) repeatedly until "CAL" is displayed on the screen. Press the **OFF** button (thumb) once to select this mode.

7

Step 6 cont'd: After CAL mode has been selected, the temperature will momentarily be displayed, then "CAL" will flash on the screen.
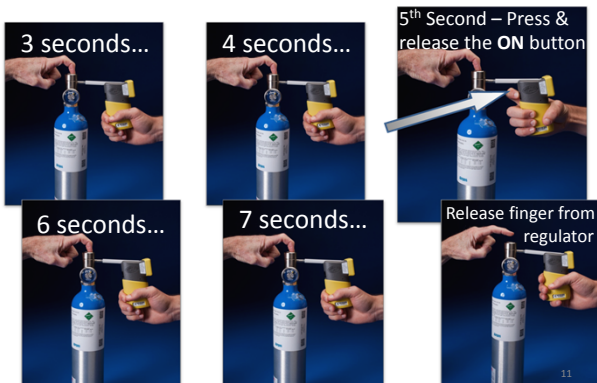

8

Step 7: Attach FST to regulator by attaching the FST mouthpiece to the tube on the tank regulator.

9

Step 8: Perform Calibration Check

Press the regulator button for 7 seconds. During the 5th second, press & release the FST's **ON** button (trigger finger) to take the gas sample.

1 second…   2 seconds…

10

Step 8 cont'd: Perform Calibration Check

3 seconds…   4 seconds…   5th Second – Press & release the **ON** button

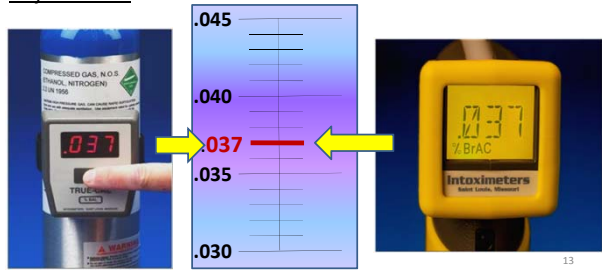6 seconds…   7 seconds…   Release finger from regulator

11

Additional Notes 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 **ON** button during the 5th second.

NOTE 2: If using a 6 liter-per minute regulator, the gas flow will be strong enough to trigger the FST's automatic sampling mechanism, thereby eliminating the need for the Operator to press & release the **ON** button during the 5th second.
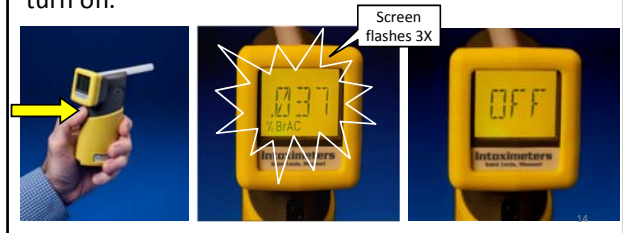
12

Step 9: Observe Reading and Interpret Results. If the reading on the FST is equal to the elevation-adjusted value of the Alcohol Gas Tank then the FST is calibrated perfectly and needs **no** Calibration Adjustment.
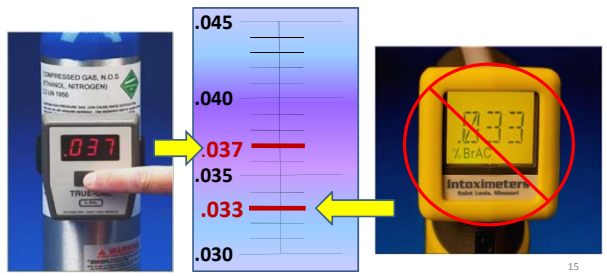

Step 9 cont'd:

If the FST does not need a Calibration Adjustment, press the Off button 3 times (to progress through each digit.) After OFF is pressed the 3rd time, the display will flash 3 times and the instrument will turn off.

Screen flashes 3X

Step 9 cont'd: Observe Reading...

If the reading on the FST does not equal the elevation-adjusted value of the Alcohol Gas Tank then the FST **needs** a Calibration Adjustment.

Step 10: Make Adjustment

The digit on the far left of the display will be flashing. If needed, change this digit by repeatedly pressing the ON button until the desired digit is showing. Press the OFF button to move to the next digit.

Step 10: Make Adjustment

The middle digit on the display will now be flashing. If needed, change this digit by repeatedly pressing the ON button until the desired digit is showing. Press the OFF button to move to the next digit.

Step 10: Make Adjustment

The digit on the far right of the display will now be flashing. If needed, change this digit by repeatedly pressing the ON button until the desired digit is showing. **Press the OFF button to finalize the adjustment procedure.**

Step 11: Record Results

Record every Calibration Check result (and/or adjustment) in a Calibration Log to document the accuracy of the Alco-Sensor.

19

Step 12: Verify the Calibration Adjustment

Turn the instrument back **ON** and perform an Accuracy Check to verify the calibration adjustment.

Be sure to use a new mouthpiece.

The result should be within +/- .003 of the expected value of the standard gas reading. If not, repeat the Calibration Adjustment after waiting several minutes.

20

For technical assistance and to order calibration supplies:

AlcoPro, Inc.

800 227-9890

www.alcopro.com

21