

## Kit includes:

Kit	CO Cylinder	Zero Air	Hardware
CABCK17L	17L 10 ppm (CABCG1017L)	17L (CABCG017L)	Regulator, tubing, fitting
CABCK	34L 10 ppm (CABCG10)	34L (CABCG0)	Regulator, tubing, fitting, carrying case
CABCK103L	103L 10 ppm (CABCG10103L)	103L (CABCG0103L)	Regulator, tubing, fitting, carrying case

### ⚠ WARNING

Bullard recommends using impurity free test gas to perform Zero Point Adjustment. Bullard Zero air, part #CABCG0, meets this requirement. Failure to follow this recommendation may cause premature failure of the sensor and render the product unsafe for use.

### ⚠ WARNING

Use only 10ppm CO gas for calibration. Bullard CO gas, part #CABCG10, meets this requirement. Using a higher concentration may produce an inaccurate calibration and damage the sensor, rendering the product unsafe for use.

## Zero-Point Adjustment

1. Connect compressed air source to CAB or COHP.
2. Allow air to pressurize system for 5-10 minutes.
3. Perform zero point adjustment and calibration.

### ⓘ NOTE:

If the unit is experiencing a temperature change of more than 20° F, wait 15-30 minutes before beginning calibration sequence.

Zero calibration should be performed before calibrating the monitor with CO gas. Use impurity-free test gas.

## Zero-Point Adjustment Procedure

1. Remove the front cover of the CO Monitor.
2. Push the ON button. The unit will beep and begin a 60-second countdown.
3. Rotate the knob located on the front of the CO Monitor to the CAL position.
4. "AC" will appear on the display.
5. Press and hold the On/Off button until it beeps.
6. "AO" will now appear on the display.



7. Attach the regulator to the zero gas cylinder.
8. Insert the calibration connector fitting into the center of the knob on the front of the monitor.
9. Open the cylinder valve fully. The flow rate is preset, so there is no need to adjust it.
10. The red LED will continue to blink for approximately 90 seconds during which the zero adjustment process will take place.
11. Watch for the green LED to begin blinking. This indicates a successful zero.
12. Verify by turning knob to TEST. LCD display should alternate between CO and O or 1. If this does not occur, wait 5 minutes and re-zero.
13. Close the regulator on zero gas cylinder completely. Remove the calibration connector fitting from the center of the knob.

### ⓘ NOTE:

Knob must be in RUN position for active monitoring of CO in the air supply.

14. In order to begin monitoring the incoming air, turn the knob to RUN.

## Calibration Instructions

Monitor calibration should be performed monthly or whenever the reading may be questionable. A calibration schedule should be maintained for future reference. To obtain an accurate calibration, we recommend the use of Bullard calibration kits.

## Calibration Procedure

(Calibration is recommended only after a zero, so the unit will already be on.)

Rotate the knob located on the front of the monitor to the CAL position.

"AC" will appear on the display.

Attach the regulator to the calibration gas cylinder (10 ppm CO required).

Insert the calibration connector fitting into the center of the knob.

Open the cylinder valve fully. The flow rate is preset, and there is no need to adjust it.

The Red LED on the front of the monitor will continue to blink for approximately 90 seconds during which the calibration process will take place.



Watch for the green LED to blink. This indicates a successful calibration.

Verify by turning knob to TEST. LCD display should alternate between CO and 10 +/-1. If this does not occur, wait 5 minutes and repeat calibration.

Close the regulator on CO gas cylinder completely and remove the calibration connector fitting from the center of the knob.

Rotate the knob to the RUN position.

**NOTE:**  
Knob must be in RUN position for active monitoring of CO in the air supply.

The monitor is now calibrated and should be recalibrated monthly or on a schedule with local requirements.

**NOTE:**  
Typical calibration takes approximately 90 seconds. If unit will not calibrate within 3 minutes, repeat the calibration steps with compressed air turned off. If the problem persists, contact the Bullard Customer Service Department at 1-877-BULLARD.

#### **WARNING**

Perform the Zero-Point Adjustment and Calibration Procedures in a clean air environment containing at least Grade D breathable air. Failure to follow this instruction could cause death or serious injury or life-threatening delayed lung disease including but not limited to silicosis, pneumoconiosis or asbestosis.

#### **California Proposition 65 WARNING**

Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### **Propuesta de California 65 ADVERTENCIA**

Cáncer y Daño Reproductivo - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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## Return Authorization

The following steps must be completed before Bullard will accept any returned goods. Please read carefully.

Follow the steps outlined below to return goods to Bullard for repair or replacement under warranty or for paid repairs:

1. Contact Bullard Customer Service by telephone or in writing at:

### **Bullard**

1898 Safety Way  
Cynthiana, KY 41031-9303  
Toll-Free: 877-BULLARD (285-5273)  
Phone: 859-234-6611

In your correspondence or conversation with Customer Service, describe the problem as completely as possible. For your convenience, the representative will try to help you correct the problem over the phone.

2. Verify with your representative that the product should be returned to Bullard. Customer Service will provide you with written permission and a return authorization number as well as the labels you will need to return the product.

3. Before returning the product, decontaminate and clean it to remove any hazardous materials which may have settled on the product during use. Laws and/or regulations prohibit the shipment of hazardous or contaminated materials. Products suspected to be contaminated will be professionally discarded at the customer's expense.

4. Ship returned products, including those under warranty, with all transportation charges pre-paid. Bullard cannot accept returned goods on a freight collect basis.

5. Returned products will be inspected upon return to the Bullard facility. Bullard Customer Service will telephone you with a quote for required repair work which is not covered by warranty. If the cost of repairs exceeds stated quote by more than 20%, your coordinator will call you for authorization to complete repairs. After repairs are completed and the goods have been returned to you, Bullard will invoice you for actual work performed.

#### **Proposition de la Californie 65 AVERTISSEMENT**

Cancer et Troubles de l'appareil reproducteur - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).