

Bullard

Clean Air Box Usage & Care



CABs
RAMs
CO
Monitors

CAB Usage & Care

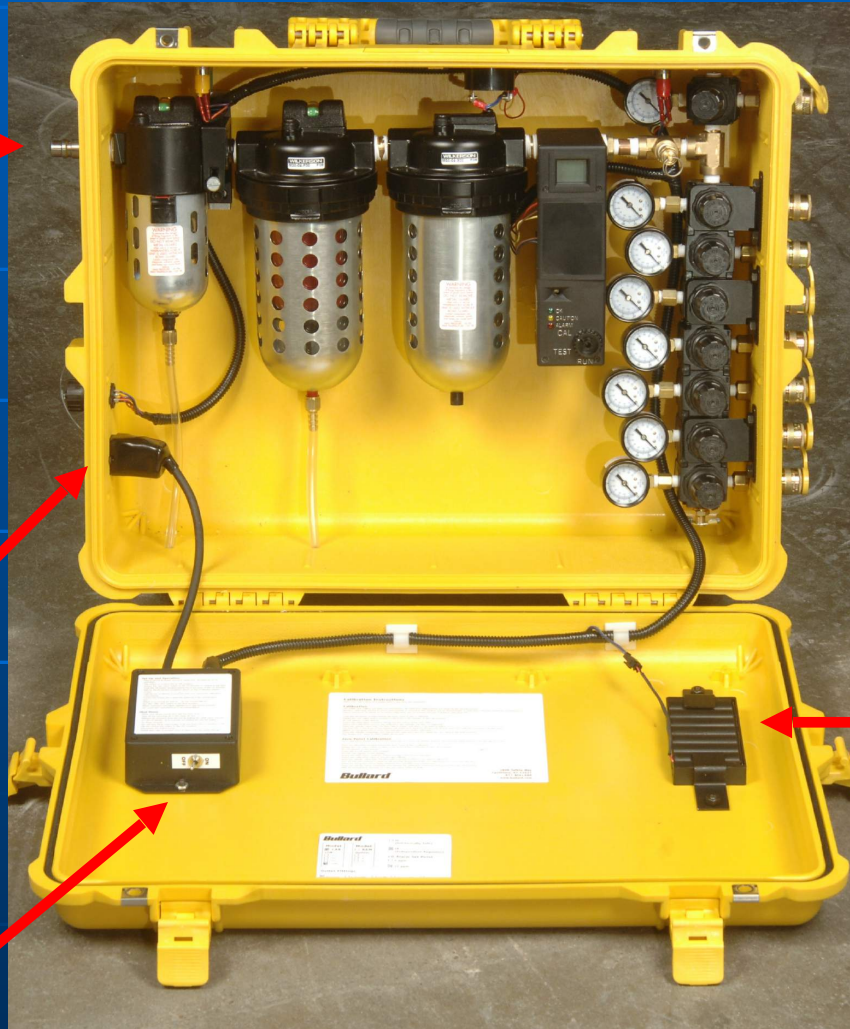
- CAB Set Up
- Calibration
- Operation
- Remote Alarm
- Shut Down
- Monitor Battery Replacement
- CO Sensor Replacement
- Filters & Drains
- AA Battery Backup

CAB Set Up (Steps 1-3)

(1) Attach
to
Incoming
Air Source
(Do not
exceed 150
psi)

(2a) Connect to
AC Power
Source
(Fixed Panels
may be hard
wired)

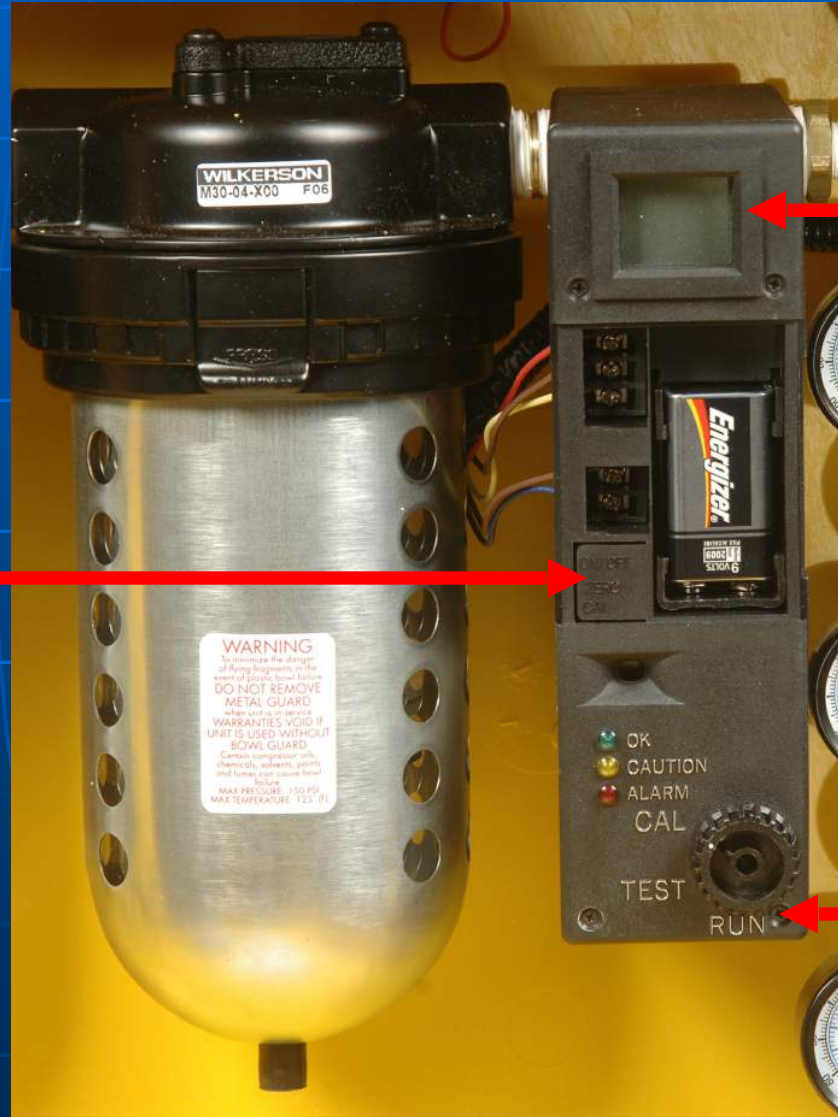
(3) Flip Control
Box Switch to
On Position



(2b) Unit may
be operated on
(8) AA batteries
if no AC power
source is
available

CAB Set Up (Steps 4-6)

(4) Remove the CO Monitor cover and press the On Button



(5) Wait for 60 second countdown / boot up

(6) If unit has been recently calibrated then set monitor to Run mode, otherwise proceed to calibration steps

Zero Point Calibration (Steps 1-5)

(1) Zero with impurity free test gas

(2) With cover off and Monitor On, rotate knob to Cal position

(3) AC will appear on LCD screen



(4) Press and hold On/Off button until beep sounds

(5) AO will appear on LCD screen

Zero Point Calibration (Steps 6-12)

(6) Attach regulator to the zero gas cylinder

(7) Insert calibration connector fitting into the center hole of the CO Monitor knob

(8) Open the cylinder valve fully



(9) The Red LED will blink for approximately 90 seconds while the zero process is completed

(10) Green LED will blink to indicate successful zero point calibration

(11) Close the gas cylinder and remove the connector fitting from the monitor

(12) Rotate CO Monitor knob to Run

Calibration (Steps 1-3)

(1) Select 5 ppm or 10 ppm test gas

(2) With Cover off and Monitor On, rotate knob to Cal position



(3) AC will appear on LCD screen

Zero Point Calibration (Steps 4-10)

(4) Attach regulator to the test gas cylinder

(5) Insert calibration connector fitting into the center hole of the CO monitor knob

(6) Open the cylinder valve fully



(7) The Red LED will blink for approximately 90 seconds while the calibration process is completed

(8) Green LED will blink to indicate successful calibration

(9) Close the gas cylinder and remove the connector fitting from the monitor

(10) Rotate CO Monitor knob to Run

Remote Alarm

The Remote Alarm duplicates the alarm functions on the CAB unit to signal workers in a remote location that there is an alarm condition with the system.

Connect the CAB unit to the Remote Alarm using the provided cable.

Test by turning the air supply off (with CO Monitor On and in Run position).

The low flow (LF) status will show on the monitor LCD and the visual and audible alarms will activate.

Turning the air supply back on will deactivate the alarm condition

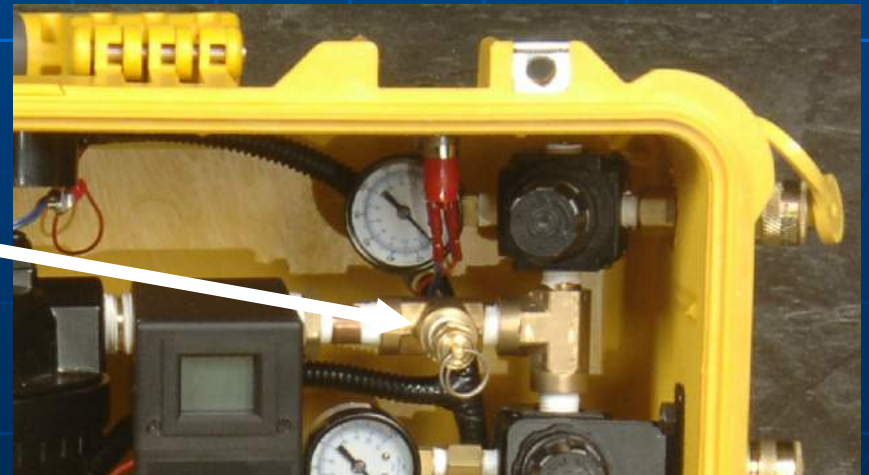


CAB Shutdown (Steps 1-3)

(1) Make sure all personnel have left the work area

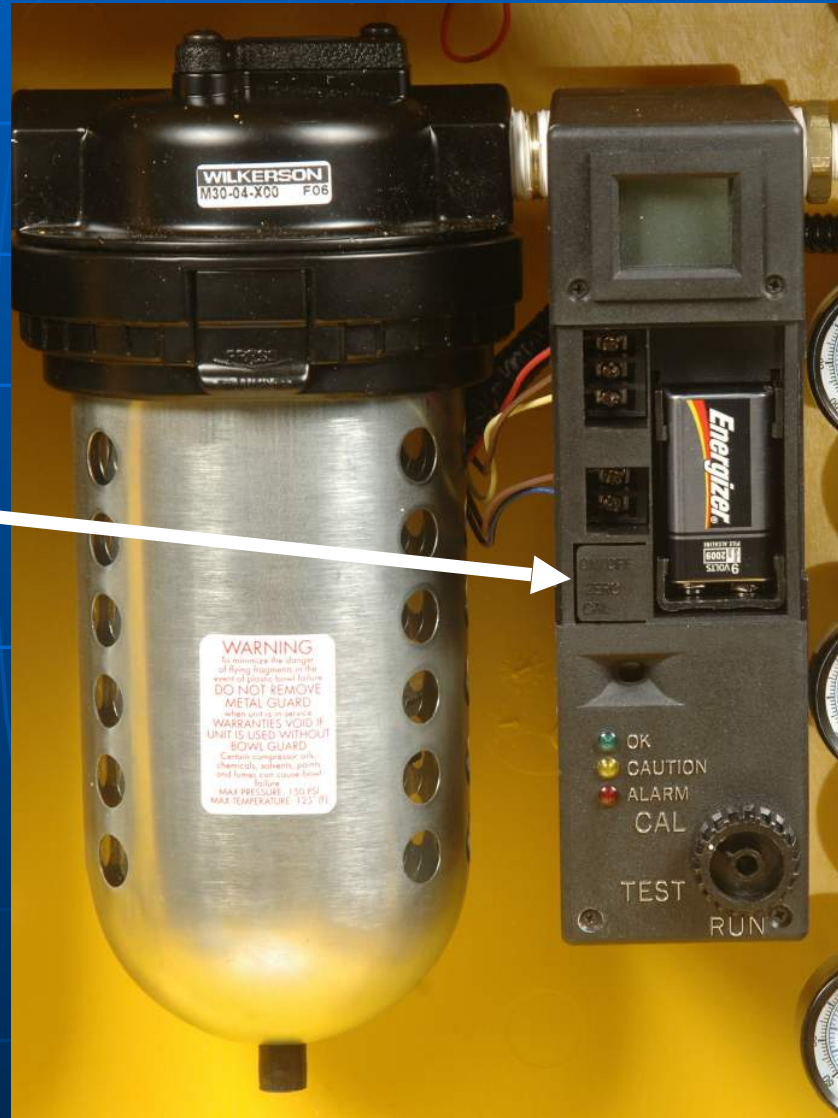
(2) Shut off the incoming air to the CAB unit

(3) Release air pressure to the box by pulling out the relief valve ring



CAB Shutdown (Steps 4-5)

(4) Turn off the CO Monitor by holding the on/off button for 3 seconds

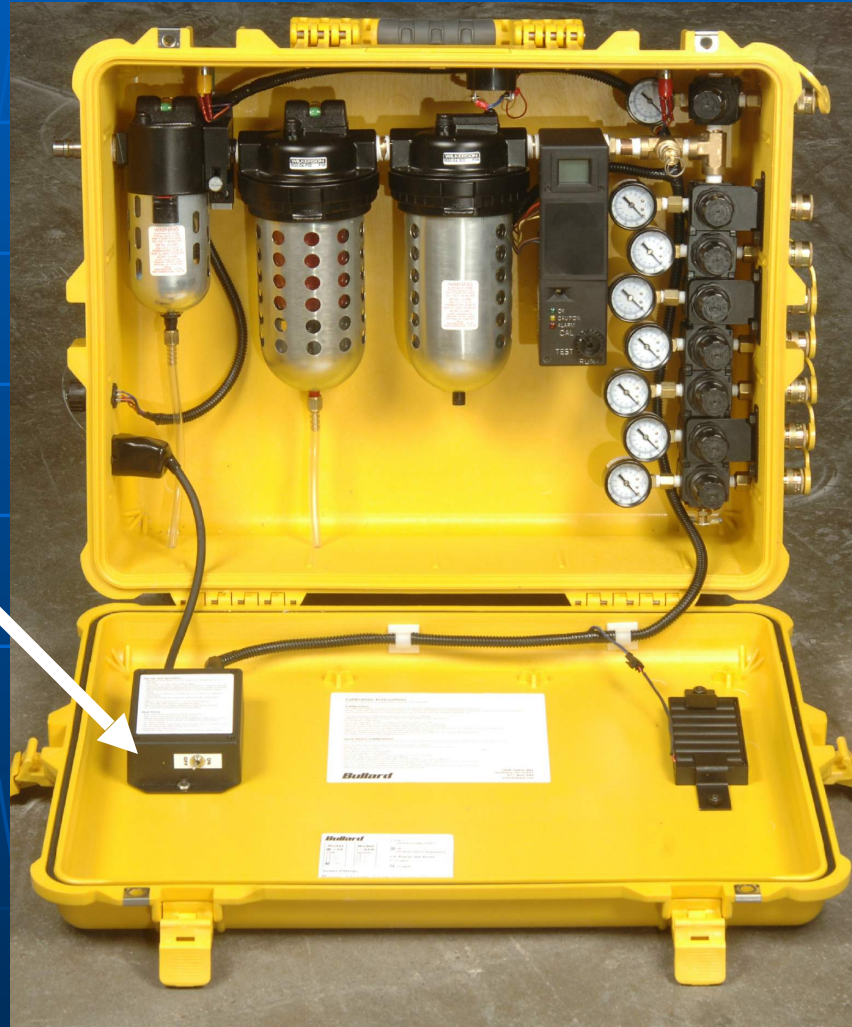


(5) You will hear 3 short beeps to indicate the CO Monitor is shutting off

CAB Shutdown (Steps 6-8)

(6) Turn the control box switch to the off position

(7) Disconnect the air supply hoses



(8) Install dust caps over the outlet fittings



CO Monitor Battery Replacement

If the 9V battery is being used to power the monitor and the battery power gets low the LCD will display LB indicating the battery needs to be changed.

(1) Remove the CO monitor cover

(2) Remove the 9V battery

(3) Install new 9V battery



CO Monitor Sensor Replacement

(1) Remove the 4 screws on the front of the CO monitor

(2) Gently pry off the cover from the **bottom** of the housing

(3) Gently pull on the old sensor

(4) Remove the shorting clip from the new sensor



(5) Align pins and gently push the new sensor into the sockets

(6) Replace the front cover of the monitor when sensor replacement is complete. Ensure LEDs are aligned with housing before securing front cover with screws.

(7) Allow instrument to warm up at least 30 minutes. Zero and Calibrate before the next use.

Filter Usage & Care

Auto Drains

They are installed on the 1st and 2nd stages only and automatically drain bulk liquid contaminants after the level has reach 1/3 of the bowl capacity. Clean periodically with mild soap and water. Make sure the tubing is securely placed in the holes at the bottom of the unit.



Filter Housings / Bowls

Periodically remove the auto drains and clean with a mild soapy solution. Re-install into the filter housing.

Filter Change Indicators

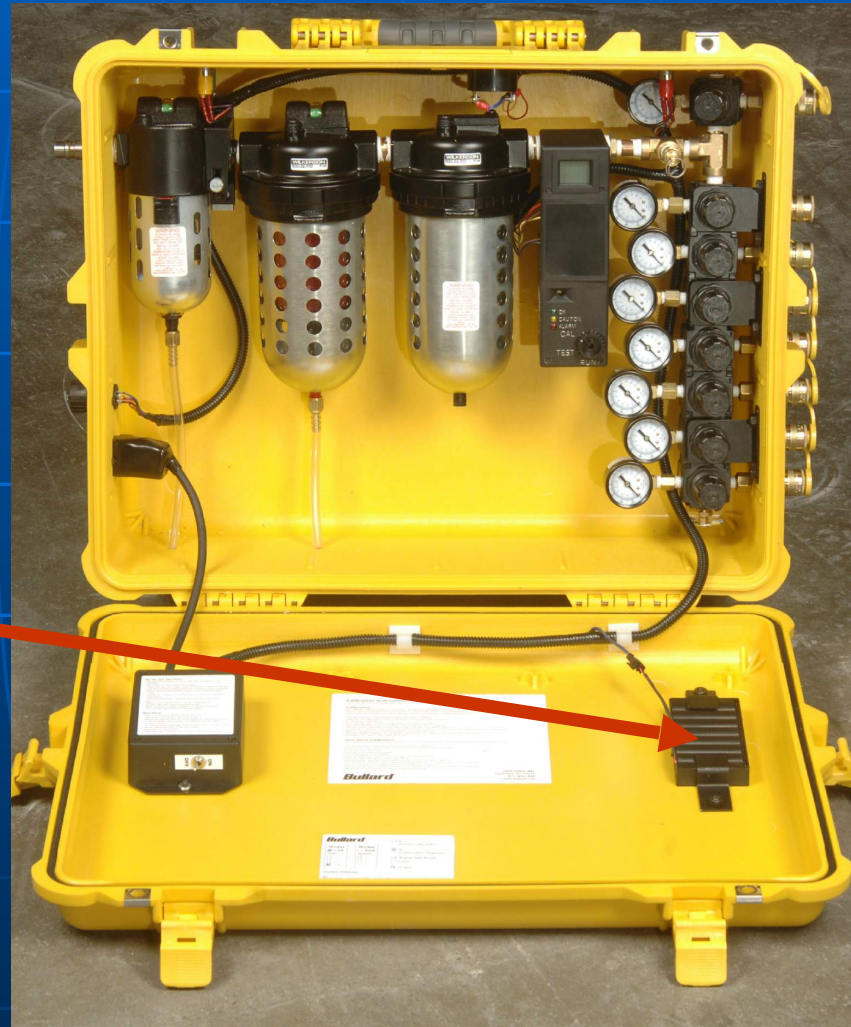
The change indicators will gradually change from green to orange when filter life is spent. Air must be flowing through the CAB unit before the indicators will function.

AA Battery Back Up

Optional DC Power Supply

CAB units may be operated using (8) AA batteries to provide power to the external lights, CO alarm and the CO monitor.

The AA battery compartment is located on the interior surface of the CAB Box.



When operating on DC power the amber light on the top of the CAB unit will burn steadily.

If the battery power for the CAB unit falls below the required voltage then the amber light will begin to flash and an audible alert in the form of short intermittent beeps will notify the user it is time to change the batteries.

Support

- Call 877-BULLARD
- Visit www.bullard.com