



ATS | **AUTOMOTIVE**
Test Solutions

BULLSEYE[®]

Leak Detector Patent Pending

***Commercial & Residential
Air Conditioning***

BULLSEYE Commercial & Residential Air Conditioning Quick Start Guide



Step 1. You will need an industrial Carbon Dioxide (CO2) gas bottle (Airgas part # CD FG5) or equivalent.



Step 2. Install CO2 regulator on bottle, then install Air Conditioning CO2 Charge hose on quick disconnect.

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Step 3. Remove safety glasses from kit and put them on in order to protect your eyes.



Step 4. Open the CO2 bottle valve and adjust CO2 regulator to about 160 PSI, never charge over 200 PSI.
Note: Reclaim refrigerant from air conditioning system, system must be empty before charging with CO2.
Now connect A/C Charge hose to A/C system and fill with CO2 gas to 160 PSI.

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Step 5. Remove electronic leak detector from kit and turn on unit, allow unit to warm up the CO2 sensor tip. When unit is ready the red light will shut off and the green ready light will turn on, this will take about 90 seconds. For best results the leak detector CO2 sensor should be allowed to fully warm up for about 5 minutes.

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Note: Never directly hit or drop the leak detector on the CO2 sensor tip, this will cause the sensor to become damaged! Do not get Leak Seeker Solution directly on the CO2 sensor tip!



Step 6. Using the electronic leak detector go around the system to identify the leak site area. While moving the CO2 probe tip around the system it is best to keep the CO2 sensor face perpendicular to the surface being tested.

Note: If tip is bumped against the surface being tested the detector may momentarily go off, this false alert will go off right away. If the leak detector senses CO2 gas the alert will stay on for 10 to 40 seconds.

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Step 7. When CO2 gas is detected the LED display bar is activated along with the audio alert (loud beeping noise). Once the detector has sensed CO2 the alerts will continue for about 10 to 40 seconds; **Note: Remove sensor from leak site area and let the unit stop beeping on its own.** Once the detector has stopped beeping you can now retest the leak site area with the CO2 detector.



Step 8. Once the leak site area has been identified take the Bullseye leak seeker solution from the kit and shake the can well. **Note: The consistency of the foam can be controlled by how much the can has been shaken; less shaken will result in a liquid consistency, and more shaken will result in a foam consistency.**

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Step 9. Install the red discharge tube in the nozzle and aim at the leak site area, push down on the nozzle to discharge the Leak Seeker Foam. Coat a large surface area around the suspected leak site.



Step 10. The Bullseye Leak Seeker Solution will spray on pinkish red and turn yellow at the leak site. On very small leak sites no bubbles will form. This is due to a very low gas volume escaping from the leak site.

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Step 11. On large leak sites the Bullseye Leak Seeker Solution will bubble and change color from pinkish red to yellow indicating a larger leak site. ***Note: If all the foam changes from a pinkish red color to a yellow color right away wash the area with the Bullseye distilled water wash thoroughly. Then reapply the Bullseye leak seeker foam solution.***

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Re-Filling The BULLSEYE Distilled Water Wash Aerosol Bottle



1. Depress schrader valve and release any air pressure remaining in bottle.
2. Unscrew top counter clockwise from bottle.
3. Fill bottle with 8 oz. of distilled water maximum.
4. Make sure container top is securely tightened.
5. Pressurize container with 70-80 psi air pressure. **WARNING!** Do not exceed 90 PSI air pressure.
6. See warning label on back of distilled water wash can for additional instructions.

Note: Do not charge bottle with CO2 gas.