

COMBINATION CARBON MONOXIDE & SMOKE ALARM



Separate sensors to detect smoke and CO, the two alarm systems work independently

Powered by two "AA" batteries

Side access drawer for easy battery replacement



IMPORTANT PLEASE READ CAREFULLY AND SAVE.
This user's manual contains important information about your Combination Carbon Monoxide & Smoke Alarm's operation. If you are installing this alarm for use by others, you must leave this manual—or a copy of it—with the end user.

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CONFORMS TO UL STD 217 AND UL STD 2034
 Model SC05

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All First Alert® and BRK® Smoke Alarms conform to regulatory requirements, including UL217 and are designed to detect particles of combustion. Smoke particles of varying number and size are produced in all fires.

Ionization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a wastebasket, or a grease fire in the kitchen.

Photoelectric technology is generally more sensitive than ionization technology at detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning in couches or bedding.

For maximum protection, use both types of Smoke Alarms on each level and in every bedroom of your home.

INTRODUCTION

FIRE SAFETY TIPS
Follow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smoke in bed. 2) Keep matches and lighters away from children; 3) Store flammable materials in proper containers; 4) Keep electrical appliances in good condition and don't overload electrical circuits; 5) Keep stoves, barbecue grills, fireplaces and chimneys grease- and soot-free; 6) Never leave anything cooking on the stove unattended; 7) Keep portable heaters and open flames, like candles, away from flammable materials; 8) Don't rub your accumulators.

Keep alarms clean, and test them weekly. Replace alarms immediately if they are not working properly. Smoke Alarms that do not work cannot alert you to a fire. Keep at least one working fire extinguisher on every floor, and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper floor in case stairs are blocked.

BASIC SAFETY INFORMATION

IMPORTANT!
 • Dangers, Warnings, and Cautions alert you to important operating instructions or to potentially hazardous situations. Pay special attention to these items.
 • This Smoke/CO Alarm is approved for use in single-family residences. It is NOT designed for marine or RV use.

CAUTION!
 • This combination Smoke/Carbon Monoxide Alarm has two separate alarms. The CO alarm is not designed to detect fire or any other hazard. It will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in your home even if the Smoke Alarm will only indicate the presence of smoke that reaches the sensor. The Smoke Alarm is NOT designed to sense gas, heat or flames.

WARNING!
 • This Smoke/CO Alarm cannot operate without working batteries. Removing the batteries for any reason, or failing to replace the batteries at the end of their service life, removes your protection.
 • NEVER ignore any alarm. See "If Your Smoke/CO Alarm Sounds" for more information about responding to an alarm. Failure to respond can result in injury or death.
 • The Silence Features are for your convenience only and will not correct a problem. See "Using the Silence Features" for details. Always check your home for a potential problem after any alarm. Failure to do so can result in injury or death.
 • Test this Smoke/CO Alarm once a week. If the Alarm ever fails to test correctly, have it replaced immediately! If the Alarm is not working properly, it cannot alert you to a problem.
 • This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure CO levels in compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards or conditions that may make them more sensitive to carbon monoxide may consider using warning devices which provide audible visual signals for carbon monoxide concentrations under 30 ppm. For additional information on carbon monoxide and your medical condition contact your physician.

FCC COMPLIANCE
 This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that of the receiver.
 - Consult the dealer or an experienced radio or TV technician for help.
- WARNING!**
 Changes or modifications to the product, not expressly approved by First Alert / BRK Brands, Inc., could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

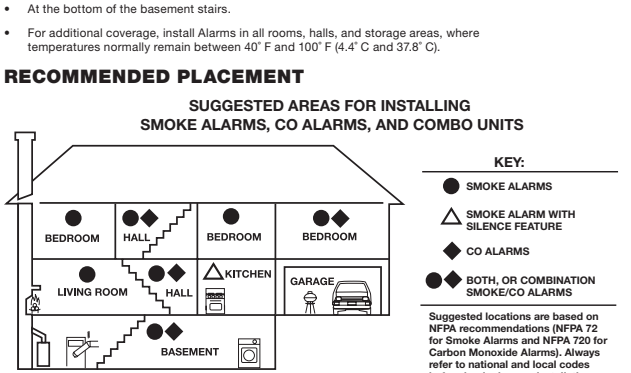
INSTALLATION
WHERE TO INSTALL THIS ALARM
 This alarm is approved for use in single-family residences by the National Fire Protection Association (NFPA), is one Smoke Alarm on every floor, in every sleeping area, and in every bedroom (See "Regulatory Information For Smoke Alarms" for details on the NFPA recommendations).

For CO Alarms, the National Fire Protection Association (NFPA) recommends that a CO Alarm should be placed in each sleeping area of each separate bedroom in the immediate vicinity of the bedrooms. For added protection, install additional CO Alarms in each separate bedroom, and on every level of your home.

NOTE: For added protection, install an additional Smoke/CO Alarm at least every level (4.6 meters) away from the furnace or fuel burning heat source where possible. In smaller homes or manufactured homes where this distance cannot be maintained, install the Alarm as far away as possible from the furnace or other fuel burning source. Installing the Alarm closer than 15 feet (4.6 meters) will not harm the Alarm, but may increase the frequency of unwanted alarms.

IN GENERAL, INSTALL COMBINATION SMOKE AND CARBON MONOXIDE ALARMS:
 • On every level of your home, including finished attics, basements, and crawl spaces.
 • Inside every bedroom, especially if people sleep with the door partly or completely closed.
 • In the hall near every sleeping area. If your home has multiple sleeping areas, install one unit in each. If a hall is more than 40 feet (12 meters) long, install a unit at each end.
 • At the top of first-to-second floor stairs.
 • At the bottom of the basement stairs.
 • For additional coverage, install Alarms in all rooms, halls, and storage areas, where temperatures normally remain between 40° F and 100° F (4.4° C and 37.8° C).

RECOMMENDED PLACEMENT
SUGGESTED AREAS FOR INSTALLING SMOKE ALARMS, CO ALARMS, AND COMBO UNITS



KEY:
 ● SMOKE ALARMS
 ▲ SMOKE ALARM WITH SILENCE FEATURE
 ▲ CO ALARMS
 ◆ BOTH CO COMBINATION SMOKE/CO ALARMS

Suggested locations are based on the NFPA 72 recommendations for Smoke Alarms and NFPA 720 for CO Alarms. For more information, refer to national and local codes before beginning any installation.

In new construction AC and AC/DC alarms MUST be interconnected to meet NFPA recommendations.

When installing on the wall, the top edge of Smoke Alarms should be placed between 4 inches (102 mm) and 12 inches (305 mm) from the wall/ceiling line.
 When installing on the ceiling, place the alarm as close to the center as possible.
 In either case, install at least 4 inches (102 mm) from where the wall and ceiling meet. See "Avoiding Dead Air Spaces" for more information.

NOTE: For any location, make sure no door or other obstruction could keep carbon monoxide or smoke from reaching the Alarm.
Installing Smoke/CO Alarms in Mobile Homes
 For minimum security install one Smoke/CO Alarm in each sleeping area as possible. For more security, put one unit in each room. Many older mobile homes (especially those built before 1978) have little or no insulation. If your mobile home is not insulated, or if you are unsure of the amount of insulation, it is important to install units on inside walls only.

WHERE THIS ALARM SHOULD NOT BE INSTALLED

- DO NOT LOCATE THIS SMOKE/CO ALARM:**
 • In garages, furnace rooms, crawl spaces and unfinished attics. Avoid extremely dusty, dirty or greasy areas.
 • Where combustion particles are produced. Combustion particles form when something burns. Areas to avoid include poorly ventilated kitchens, garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater, space heater) if possible. Areas where a 20-foot (6 meter) distance is not possible—in modular, mobile or smaller homes—for example—do not recommend the Smoke Alarm be placed as far from these fuel-burning sources as possible. The placement recommendations are intended to keep these Alarms at a reasonable distance from a fuel-burning source, and they reduce "wasted" alarms. Unwanted alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning source. Ventilate these areas as much as possible.

- Within 5 feet (1.5 meters) of any cooking appliance, in or near rooms near kitchens. Air currents can draw cooking smoke into the smoke sensor and cause unwanted alarms.
- In extremely humid areas. This Alarm should be at least 10 feet (3 meters) from a shower, sauna, humidifier, vaporizer, dishwasher, laundry room, utility room, or other source of high humidity.
- In direct sunlight.
- In turbulent air, like near ceiling fans or open windows. Blowing air may prevent CO from reaching the sensor.
- In areas where temperatures are cooler than 40° F (4.4° C) or hotter than 100° F (37.8° C). These areas include non-airconditioned crawl spaces, unfinished attics, uninsulated or poorly insulated garages, porches, and garages.
- In insect infested areas. Insects can clog the openings to the sensing chamber.
- Less than 12 inches (305 mm) away from fluorescent lights. Electrical "noise" can interfere with the sensor.
- In "dead air" spaces. See "Avoiding Dead Air Spaces".

AVOIDING DEAD AIR SPACES

"Dead air" spaces may prevent smoke from reaching the Smoke/CO Alarm. To avoid dead air spaces, follow installation recommendations below.

On ceilings, install Smoke/CO Alarms as close to the center of the ceiling as possible. If this is not possible, install the Smoke/CO Alarm at least 4 inches (102 mm) from the wall or ceiling.

Wall mounting: If allowed by building codes, the top edge of Smoke/CO Alarms should be placed between 4 inches (102 mm) and 12 inches (305 mm) from the wall/ceiling line, below typical "dead air" spaces.

On a peaked, gabled, or cathedral ceiling, install first Smoke/CO Alarm within 3 feet (0.9 meters) of the peak of the ceiling, measured horizontally. Additional Smoke/CO Alarms may be required depending on the length, angle, etc. of the ceiling's slope. Refer to NFPA 72 for more information on requirements for sloped or peaked ceilings.

HOW TO INSTALL THIS ALARM

IMPORTANT!
 This combination Smoke/CO Alarm was designed to be mounted on the ceiling or wall. It is not a tabletop device. You must install this device on the ceiling or wall as outlined below. Read "Where To Install This Alarm" before starting.

Tools you will need: pencil, drill with 3/16" or 5/mm drill bit, flathead screwdriver, hammer.
PARTS OF THIS SMOKE/CO ALARM

1. Test/Silence Button
2. Battery Compartment
3. Power/Smoke Alarm LED
4. CO Alarm LED

CAUTION!
 • Do not connect this unit to any other alarm or auxiliary device. It is a single-station unit that cannot be linked to other devices. Connecting anything else to this unit may prevent it from working properly.
 • Do not install this unit over an electrical junction box. Air currents around junction boxes can prevent smoke from reaching the sensing chamber and prevent the unit from alarming. Only AC powered units are intended for installation over junction boxes.

IMPORTANT!
 If you want to lock the battery compartment, or lock the Smoke/CO Alarm to the mounting bracket, please read the "Optional Locking Features" section.

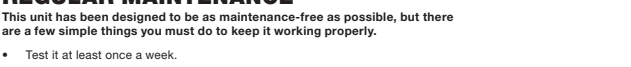
1. Hold base firmly and twist the mounting bracket counter/clockwise (left) to separate it from the unit.
2. Hold the mounting bracket against the ceiling or wall so the vertical mounting slot is aligned in the 12 o'clock position and the center of the mounting side (vertical and horizontal mounting).
3. Put the unit where it won't get covered with dust when you drill the mounting holes.
4. Using a 3/16" (5 mm) drill bit, drill a hole through the center of the oval outlines you traced.
5. Insert the plastic screw anchors (in the plastic bag with screws) into the holes. Tap the screw anchors gently with a hammer. If necessary, use only drywall with anchors.
6. Line the mounting bracket up over the plastic screw anchors.
7. Screw the mounting bracket to the ceiling or wall through the mounting slots using the two screws provided.
8. Before attaching the Alarm to the bracket, insert the two (2) AA batteries (included) into the battery compartment. Match the terminals on the end of the battery with the terminals on the unit. Match "+" to "+" and "-" to "-". If the batteries are not fully inserted, the unit cannot receive battery power.
NOTE: The unit may beep briefly when you install the batteries. This is normal. The GREEN LIGHT flashes about every 60 seconds when the unit is receiving battery power.

WARNING!
 The battery door will resist closing unless batteries are installed. This warns you the unit will not operate without batteries.

6. Attach the Smoke/CO Alarm to the mounting bracket. Line up the guides on the alarm's base with the guides on the mounting bracket. When guides are lined up, turn the black circle (right) until it snaps into place.

NOTE: Once the Smoke/CO Alarm is snapped onto the mounting bracket, you can rotate the Smoke/CO Alarm to the right or left.

10. Test the Smoke/CO Alarm. See "Weekly Testing" for details.



REGULAR MAINTENANCE

This unit has been designed to be a maintenance-free as possible, but there are a few simple things you must do to keep it working properly.

- Test it at least once a week.
- Clean the Smoke/CO Alarm at least once a month; gently vacuum the outside of the Smoke/CO Alarm using your household vacuum's soft brush attachment. A can of clean compressed air (sold at computer or office supply stores) may also be used. Follow the instructions for use. Test the Smoke/CO Alarm. Never use water, cleaners or solvents since they may damage the unit.
- If the Smoke/CO Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be cleaned to avoid unwanted alarms, replace the unit immediately.
- Relocate the unit if it sounds frequent unwanted alarms. See "Where This Alarm Should Not Be Installed" for details.

Choosing a replacement battery:
 Your Smoke/CO Alarm requires two standard AA Batteries. The following batteries are acceptable as replacements: Duracell MN1500. These batteries are available at many local retail stores.

WARNING!
 Always use the exact batteries specified by this User's Manual. DO NOT use rechargeable batteries to replace the battery on this alarm. The use of the device prior to battery installation. Install batteries correctly with regard to polarity (+ and -).

IMPORTANT!
 When replacing the batteries, always test the Smoke/CO Alarm before relocking the battery compartment.

OPTIONAL LOCKING FEATURES
 The optional locking features are designed to discourage unauthorized removal of the batteries or Alarm. It is NOT necessary to activate the locks in single-family households where unauthorized battery or Alarm removal is not a concern. This Smoke Alarm has two separate locking features: one to lock the battery compartment, and the other to lock the Smoke Alarm to the mounting bracket. You can choose to use either feature independently, or use them both.

Tools you will need: Needle-nose pliers or utility knife Standard flathead screwdriver.
 Both locking features use locking pins, which are molded into the mounting bracket. Depending on which locking features you use, remove one or both pins from the mounting bracket using needle-nose pliers or a utility knife.

IMPORTANT!
 To permanently remove either locking pin, insert a flathead screwdriver between the locking pin and the lock, and pry the pin out of the lock.

TO LOCK THE BATTERY COMPARTMENT
 Do not lock the battery compartment until you activate the battery and test the Smoke/CO Alarm.

15. Install the batteries before attaching the Alarm to the bracket. Insert the two (2) AA batteries (included) into the battery compartment. Match the terminals on the end of the battery with the terminals on the unit. Match "+" to "+" and "-" to "-". If the batteries are not fully inserted, the unit cannot receive battery power.

16. Push and hold Test/Silence button until the alarm sounds.
IMPORTANT!
 If the unit does not alarm during testing, DO NOT lock the battery compartment. Install new batteries and test again. If the unit still does not alarm, replace it immediately.

17. Using needle-nose pliers or a utility knife, detach one locking pin from the mounting bracket.

18. Push the locking pin through the hole near the battery door latch on the back of the Smoke/CO Alarm.

TO LOCK THE MOUNTING BRACKET
 1. Using needle-nose pliers or a utility knife, detach one locking pin from the mounting bracket.

2. Insert the locking pin through the hole on the back of the Smoke/CO Alarm as shown in the diagram.

3. When you attach the Smoke/CO Alarm to the mounting bracket, the locking pin's head will fit into a notch on the bracket.

REGULAR MAINTENANCE (CONTINUED...)

WARNING!
 • Please dispose of or recycle used batteries properly, following any local regulations. Consult your local waste management authority or recycling organization to find an electronic recycling facility in your area. DO NOT DISPOSE OF BATTERIES IN FIRE. BATTERIES MAY EXPLODE OR LEAK.

WARNING!
 • Keep battery out of reach of children. In the event a battery is swallowed, immediately contact your poison control center, your physician, or the National Battery Ingestion hotline at 202-425-3333 as serious injury may occur.

- IMPORTANT!**
 Actual battery service life depends on the Smoke/CO Alarm and the environment in which it is installed. All the batteries specified above are acceptable replacement batteries for this unit. Regardless of the manufacturer's suggested battery life, you MUST replace the battery immediately once you start "chirping" (the "low battery warning").
- To replace the batteries (without removing Alarm from the ceiling or wall):
1. Open the battery compartment.
 2. Press tabs A and B as shown in the diagram and remove each battery.
 3. Insert the new batteries, making sure they snap completely into the battery compartment. Match the terminals on the ends of the batteries with the terminals on the unit.
 4. Close the battery compartment, and then test the unit by pressing the Test/Silence button.



WEEKLY TESTING

WARNING!
 • NEVER use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home. The built-in test switch accurately tests the unit's operation as required by Underwriters Laboratories, Inc. (UL). NEVER use vehicle exhaust! Exhaust may cause permanent damage and voids your warranty.

- DO NOT stand close to the Alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, stop away when horn starts sounding.

CAUTION!
 It is important to test this unit every week to make sure it is working properly. Using the test button is the recommended way to test this Smoke/CO Alarm.

You can test this Smoke/CO Alarm: Press and hold the Test/Silence button 3-5 seconds until unit starts to alarm. During testing, you will see and hear the following sequence:

- The Horn will sound 3 beeps, pause, 3 beeps. The Power/Smoke LED flashes Red and the CO LED will be Off.
- Next the Horn will sound 4 beeps, pause, 4 beeps. The Power/Smoke LED will be Off and the CO LED flashes Red.

If the unit does not alarm, make sure the batteries are correctly installed, and test again. If the unit still does not alarm, replace it immediately.

Type of Alarm	What You See and Hear
Carbon Monoxide (CO)	CO LED: Flashes Red Horn: 4 beeps, pause, 4 beeps, pause Power/Smoke LED: Off Power/Smoke LED: Flashes Red Horn: 3 beeps, pause, 3 beeps, pause CO LED: Off
Smoke	CO LED: Off

IF THE CO ALARM SOUNDS
"ALARM MOVE TO FRESH AIR"
 If you hear the CO alarm horn and the CO red light is flashing, move everyone to the source of fresh air. DO NOT remove the batteries!

WARNING!
 Actuation of your CO Alarm indicates the presence of carbon monoxide (CO) which can kill you. In other words, when your CO Alarm sounds, you must not ignore it!

11. Operate the Test/Silence button:
12. Call your emergency services, fire department or 911. Write down the number of your local emergency service here.

13. Immediately move to fresh air—outdoors or by an open door or window. Do a head count to check that all persons are accounted for. Do not re-enter the premises, or move away from the open door or window until the emergency services responder has arrived, the premises have been aired out, and your CO Alarm remains in its normal condition.

14. After following steps 1-3, if your CO Alarm reactivates within a 24-hour period, repeat steps 1-3 and call a qualified appliance technician to investigate for sources of CO from fuel-burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection have the equipment serviced immediately. Note any combustion equipment not inspected by the technician, and consult the manufacturers' instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not, been operating in an attached garage or adjacent to the residence. Write down the number of a qualified appliance technician here.

NOTE: A qualified appliance technician is defined as "a person, firm, corporation, or company that either in person or through a representative, is engaged in and responsible for the installation, testing, servicing, or replacement of heating, ventilation, air conditioning (HVAC) equipment, combustion appliances and equipment, and/or gas fireplaces or other decorative combustion equipment."

IF THE SMOKE ALARM SOUNDS
RESPONDING TO AN ALARM
WARNING!
 • If the unit alarms and you are not testing the unit, it is warning you of a potentially dangerous situation that requires your immediate attention. NEVER ignore any alarm. Ignoring the alarm may result in injury or death.

• Never remove the batteries from a battery operated Smoke/CO Alarm to stop an unwanted alarm (caused by cooking) without first turning off the alarm. Removing batteries disables the alarm so it cannot sense smoke, and removes your protection. Instead open a window or fan the smoke away from the unit. The alarm will reset automatically.

• If the unit alarms get everyone out of the house immediately.

- WHAT TO DO IN CASE OF FIRE
 Don't panic; stay calm. Follow your family escape plan.
 Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.
 Feel doors with the back of your hand before opening them. If a door is cool, open it slowly. Don't open a hot door. Keep doors and windows closed, unless you must escape through them.
 Cover your nose and mouth with a cloth (preferably damp). Take short, shallow breaths.
 Meet at your planned meeting place outside your home, and do a head count to make sure everybody got out safely.
 Call the Fire Department as soon as possible from outside. Give your address, then your name.
 Never go back inside a burning building for any reason.
 Contact your Fire Department for ideas on making your home safer.

WARNING!
 Alarms have various limitations. See "General Limitations of Smoke/CO Alarms" for details.

USING THE SILENCE FEATURES

WARNING!
 Never remove the batteries to quiet an unwanted alarm. Removing the batteries eliminates manual authority or recycling organization to find an electronic recycling facility in your area. DO NOT DISPOSE OF BATTERIES IN FIRE. BATTERIES MAY EXPLODE OR LEAK.

The Silence Feature is intended to temporarily silence the horn while you identify and correct the problem. Do not use the Silence Feature in emergency situations. It will not correct a CO problem or extinguish a fire. The Silence Feature can temporarily quiet an unwanted alarm for several minutes. Press the Test/Silence button on the alarm cover for at least 3-5 seconds.

When the Test/Silence Alarm is Released, the Red LED blinks during the silence mode.

When the Smoke Alarm is Released	When the CO Alarm is Released
The Smoke Alarm will remain silent for up to 15 minutes, then return to normal operation. If the smoke has not cleared—or continues to increase—the device will go back into alarm.	The CO alarm will remain silent for up to 4 minutes. After 4 minutes, if CO levels remain potentially dangerous the horn will start sounding again.

SILENCING THE LOW BATTERY WARNING!
 This Silence feature is intended to temporarily silence the low battery warning "chirp" for up to 8 hours. Press the Test/Silence button on the alarm cover.

Once the low battery warning "chirp" silence feature is activated, the unit continues to flash the Green light once a minute for 8 hours. After 8 hours, the low battery "chirp" will resume. Replace the batteries as soon as possible; this unit will not operate without battery power!

To deactivate this feature: Press the Test/Silence button again. The unit will go into Test Mode and the low battery warning will resume (LED flashes and unit sounds "chirp" once a minute).

SILENCING THE END OF LIFE SIGNAL
 This silence feature can temporarily quiet the End of Life warning "chirp" for up to 2 days. It can silence the End of Life warning "chirp" by pressing the Test/Silence button. The horn will chirp, acknowledging that the End of Life silence feature has been activated.

After approximately 2 days, the End of Life "chirp" will resume.

WHAT YOU NEED TO KNOW ABOUT CO WHAT IS CO?
 CO is an invisible, odorless, tasteless gas produced when fossil fuels do not burn completely, or are exposed to heat (usually fire). Electrical appliances typically do not produce CO.

These fuels include: Wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane.
 Common appliances are often sources of CO. If they are not properly maintained, are improperly vented, or malfunction, CO levels can rise quickly. CO is a real danger now that homes are more energy efficient. "Air-tight" homes, with added insulation, sealed windows, and other weatherproofing can "trap" CO inside.

SYMPTOMS OF CO POISONING
 Symptoms: Slight headache, nausea, vomiting, fatigue ("flu-like" symptoms).
Medium Exposure: Throbbing headache, drowsiness, confusion, fast heart rate.
Extreme Exposure: Convulsions, unconsciousness, heart and lung failure. Exposure to Carbon Monoxide can cause brain damage, deaf, and lung failure.

IMPORTANT!
 This CO Alarm measures exposure to CO over time. It alarms if CO levels are extremely high in short period of time, or if CO levels reach a certain minimum over a long period of time. The CO Alarm generally sounds an alarm before the onset of symptoms in average, healthy adults. Why is this important? Because you need to be warned of a potential CO problem while you can still react in time. In many reported cases of CO exposure, victims may be aware that they are "feeling" bad, but become "desensitized" and can no longer react well enough to exit the building or get help. Also, young children and pets may be the first affected. The average healthy adult might not feel any symptoms when the CO Alarm sounds. However, people with cardiac or respiratory problems, infants, unborn babies, pregnant mothers, or elderly people can be more quickly and severely affected by CO. If you experience even mild symptoms of CO poisoning, consult your doctor immediately!

FINDING THE SOURCE OF CO AFTER AN ALARM
 Carbon monoxide is an odorless, invisible gas, which often makes it difficult to locate the source of CO after an alarm. There are a few of the factors that can make it difficult to locate sources of CO:

- House well ventilated before the investigator arrives.
- Problem caused by "backdrafting".
- Transient CO problem caused by special circumstances.

Because CO may dissipate by the time an investigator arrives, it may be difficult to locate the source of CO. BRK Brands, Inc. shall not be obligated to pay for any carbon monoxide investigation or service call.

POTENTIAL SOURCES OF CO IN THE HOME
Fuel-burning appliances: portable heater, gas or wood burning fireplace, gas kitchen stove or cooking gas, gas water heater.

Damaged or insufficient venting: corroded or disconnected water heater vent pipe, leaking chimney pipe or flue, or cracked heat exchanger, blocked or clogged chimney opening.

Improper use of appliances/devices: operating a barbecue grill or vehicle in an enclosed area, like a garage or screened porch.

Transient CO Problems: "transient" or on-again-off-again CO problems can be caused by the following conditions and other special circumstances.

1. Excessive spillage or reverse venting of fuel gas appliances caused by outdoor conditions such as: Wind direction and velocity, including high, gusty winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles).
2. Negative pressure differential resulting from the use of exhaust fans.
3. Several appliances running at the same time competing for limited fresh air.
4. Vent pipe connections vibrating loose from clothes dryers, furnaces, or water heaters.
5. Obstructions in or unconventional vent pipe designs which can amplify the above situations.

2. Extended operation of unvented fuel burning devices (range, oven, fireplace).

3. Temperature inversions, which can trap exhaust close to the ground.

4. Car idling in an open or closed attached garage, or near a home.
 These conditions are dangerous because they can trap exhaust in your home. Since these conditions can come and go, they are also hard to recreate during a CO investigation.

HOW CAN I PROTECT MY FAMILY FROM CO POISONING?
 A CO Alarm is an excellent means of protection. It monitors the air and sounds a loud alarm before Carbon Monoxide levels become threatening for average, healthy adults.

A CO Alarm is NOT a substitute for proper maintenance of home appliances.
 To help prevent CO problems and reduce the risk of CO poisoning:</

