



USER'S MANUAL

SMOKE & CARBON MONOXIDE ALARM

BATTERY POWERED WITH WIRELESS INTERCONNECT
AND VOICE & LOCATION

Model SMC050V



IMPORTANT! PLEASE READ CAREFULLY AND SAVE.

The warnings/limitations card and manual contains important information about your Smoke Alarm's operation. If you are installing this Alarm for use by others, you must leave this manual—a or copy of it—with the end user.

Para el manual del usuario en español, por favor visite firstalert.com

01 INTRODUCTION

Thank you for choosing First Alert® for your Smoke and Carbon Monoxide Alarm needs. You have purchased a state-of-the-art Smoke & Carbon Monoxide Alarm designed to help provide you with early warning of a smoke and/or carbon monoxide danger. Please take the time to read this manual and make the Smoke & Carbon Monoxide Alarm an integral part of your family's safety plan.

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 gas. It will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas. 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 Carbon Monoxide Alarm is designed to detect carbon monoxide gas from **ANY** source of combustion. It is **NOT** designed to detect smoke, fire or any other gas, unless the product has been investigated and determined to comply with the applicable requirements.
- 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 on how to respond to an Alarm. Failure to respond can result in injury or death.
- The Silence Features are will repeat any Alarm signal that is received to all other Wireless Interconnect Alarms. Interference from structural conditions can be overcome by adding additional Alarms to route the Wireless signal around obstructions. A maximum of 18 compatible units may be interconnected (maximum of 12 Smoke Alarms). Compatible Wireless Interconnect Alarms: SMC050V, SM500V.
- IMPORTANT!**
 - The range and proper operation of any wireless device will vary depending on its surroundings. It is very important that each Alarm is tested individually before and after installation to make sure that all Alarms respond properly.
 - The Wireless Interconnect Alarms are not to be used outdoors or to transmit between buildings. The Alarms will not communicate properly under these conditions.
 - Metal objects and metallic wallpaper may interfere with signals from wireless Alarms. Alarms should be tested after changes to your home such as remodeling, moving furniture, and with metal doors opened and closed.

Your First Alert® Wireless Interconnect Smoke/CO Alarm will automatically communicate potential fires with all other compatible First Alert® Wireless Interconnect Smoke/CO Alarms.

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.

▲ 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.

This unit is designed to be mounted on the ceiling, or on the wall if necessary.

Tools you will need: pencil, drill with 3/16" (5 mm) drill bit, standard flathead screwdriver, hammer

THE PARTS OF THIS SMOKE/CO ALARM

- Battery compartment, install batteries here
- Test/Silence button
- CO Alarm LED
- Power/Smoke Alarm LED
- Turn this way to remove
- Turn this way to attach
- Mounting bracket
- Mounting slots

Smoke Alarms for the hearing impaired: Special purpose Smoke Alarms should be installed for the hearing impaired. They include a visual Alarm and an audible Alarm horn, and meet the requirements of the Americans With Disabilities Act. These units can be interconnected so if one unit senses smoke, all units Alarm.

Smoke Alarms are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

All First Alert® 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, 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.

03 INSTALLATION

WHERE TO INSTALL THIS ALARM

Minimum coverage for Smoke Alarms, as recommended 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).

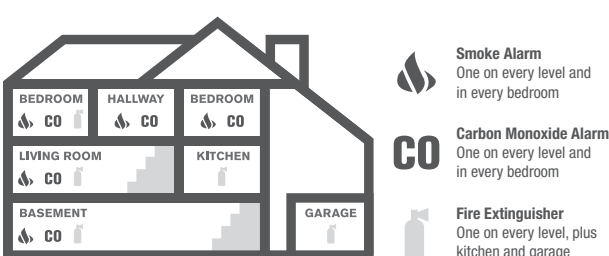
For CO Alarms, the National Fire Protection Association (NFPA) recommends that a CO Alarm should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional CO Alarms in each separate bedroom, and on every level of your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

NOTE: For added protection, install an additional Smoke/CO Alarm at least 15 feet (4.6 meters) away from the furnace or fuel burning heat source where possible. In smaller homes or in 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 and basements.
- 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 a 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:



- 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.

WHERE NOT TO INSTALL THIS ALARM

FOR BEST PERFORMANCE, IT IS RECOMMENDED YOU AVOID INSTALLING SMOKE/CO ALARMS IN THESE AREAS:

- 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. In areas where a 20-foot (6 meter) distance is not possible—in modular, mobile, or smaller homes, for example—it is recommended 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 thus reduce unwanted 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 air streams 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 or smoke from reaching the sensors.
- In areas where temperature is colder than 40° F (4.4° C) or hotter than 100° F (37.8° C). These areas include non-air conditioned crawl spaces, unfinished attics, uninsulated or poorly insulated ceilings, 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.

AVOIDING DEAD AIR SPACES

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

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

For wall mounting (if allowed by building codes), the top edge of Smoke 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 Alarm within 3 feet (0.9 meters) of the peak of the ceiling, measured horizontally. Additional Smoke Alarms may be required depending on the length, angle, etc. of the ceiling's slope. Refer to NFPA 72 for details on requirements for sloped or peaked ceilings.

WIRELESS OPERATION

First Alert® Wireless Interconnect Technology is the easy, cost-effective way to provide your family with whole-home safety. Compatible Wireless Interconnect Alarms communicates with each other without wires or connectors. When one Alarm sounds, they all sound. This provides your family with an earlier warning of potential danger, and gives you more time to react.

The communication distance (range) between any two compatible Wireless Interconnect Alarms is typically 1000 feet (30 meters) inside of a home. Some features of a home, such as the number of levels, number/size of rooms, furniture and types of building materials may reduce the range of the Alarms. Examples include: suspended ceilings, ductwork, large metallic appliances (refrigerators) and metal studs. A feature of Wireless Interconnect Alarms is that they operate as a mesh network. If one Alarm is not working properly, it will not affect the operation of the other Alarms. Interference from structural conditions can be overcome by adding additional Alarms to route the Wireless signal around obstructions. A maximum of 18 compatible units may be interconnected (maximum of 12 Smoke Alarms). Compatible Wireless Interconnect Alarms: SMC050V, SM500V.

IMPORTANT!

- The range and proper operation of any wireless device will vary depending on its surroundings. It is very important that each Alarm is tested individually before and after installation to make sure that all Alarms respond properly.
- The Wireless Interconnect Alarms are not to be used outdoors or to transmit between buildings. The Alarms will not communicate properly under these conditions.
- Metal objects and metallic wallpaper may interfere with signals from wireless Alarms. Alarms should be tested after changes to your home such as remodeling, moving furniture, and with metal doors opened and closed.

Your First Alert® Wireless Interconnect Smoke/CO Alarm will automatically communicate potential fires with all other compatible First Alert® Wireless Interconnect Smoke/CO Alarms.

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.

▲ 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.

This unit is designed to be mounted on the ceiling, or on the wall if necessary.

Tools you will need: pencil, drill with 3/16" (5 mm) drill bit, standard flathead screwdriver, hammer

THE PARTS OF THIS SMOKE/CO ALARM

- Battery compartment, install batteries here
- Test/Silence button
- CO Alarm LED
- Power/Smoke Alarm LED
- Turn this way to remove
- Turn this way to attach
- Mounting bracket
- Mounting slots

FOLLOW THESE SIMPLE STEPS

- Choose a location. See "Where to Install This Alarm" for reference.

WARNING! Do not install this Alarm over an existing electrical box. Only AC powered units are intended for installation over electrical boxes.

- Hold the mounting bracket against the ceiling (or wall) so the vertical mounting slot is aligned in the 12 o'clock position and trace around the inside of the mounting slots (vertical and horizontal mounting).

- Put the unit where it won't get covered with dust when you drill the mounting holes.
- Using a 3/16" (5 mm) drill bit, drill a hole through the center of the oval outlines you traced.

- Insert the plastic screw anchors (in the plastic bag with screws) into the holes. Tap the screw anchors gently with a hammer, if necessary, until they are flush with the ceiling or wall.

- Line the mounting bracket up over the plastic screw anchors. Screw the mounting bracket to the ceiling or wall through the mounting slots using the two screws provided.

- Install the batteries. First install the battery closest to the outside of the Alarm and then the battery which is closer to the first Alarm. Match the + and – orientation to that shown on the Alarm. Push the batteries in until they snap securely. If the batteries are not snapped in completely, the unit cannot receive battery power.

NOTE: After you install the batteries, there will be LED and horn activation prompts.

- Position the base of the Alarm over the mounting bracket and turn. Turn the Alarm clockwise until the unit is in place.

- Test the Alarm. See "Weekly Testing."

ADDING AND LINKING ADDITIONAL WIRELESS INTERCONNECT ALARMS

- Pick a unit to be the "Primary" unit. On that unit, insert the batteries into the battery drawer, then close the drawer. You will hear a short chirp indicating the alarm is now activated. Follow the verbal instructions or "Step by Step Guide To Programming This Alarm" section to set up the location.
- Prep the "Secondary" units (all the other detectors, minus the "Primary" unit). Insert the batteries but KEEP THE DRAWER OPEN. Press and hold test button and close drawer at the same time. Continue to hold the test button until you hear a short chirp. The LED on the alarm should now be blinking green.
- Press and hold down the test button on the "Primary" unit. You should then hear the "Secondary" units chirp or start talking. This will indicate they are paired.
- If the unit has voice & location, follow the verbal instructions or "Step by Step Guide To Programming This Alarm" section to set up the location.
- Repeat steps 2-3 to link additional wireless interconnect alarms.
- Press and hold the test button on any unit to test them. If you paired them successfully, they should all start to test. Make sure you hold the test button down until each chirp or say "Testing" (voice units only).

STEP BY STEP GUIDE TO PROGRAMMING THIS ALARM

For First Time and When Changing Batteries

Action	Alarm Will Say
Insert batteries (2, AA batteries)	"Welcome, First Alert Carbon Monoxide and Smoke Alarm." "No location programmed" if first time or "Location, example: 'Basement' location programmed" when changing batteries. "To select location, press and hold test button now."
Press & hold test button if you would like to program the location or change the location of the Alarm. Release button after Alarm responds.	"To save location, press and hold test button after location is heard." Alarm will speak list of locations (see below).
After you hear the location of where you are placing the Alarm, press & hold the test button.	"Location, example: 'Basement' location saved." If no location is chosen: "No location saved."
Your Alarm has now been programmed for the location of your choice.	

Available Locations: Basement, Hallway, Office, Child's Bedroom, Kitchen, Utility Room, Dining Room, Living Room, Family Room, Master Bedroom, Guest Bedroom, No Location.

Action	What You Will See & Hear
Under Normal Operations	Voice: Silent; Horn: Silent; Power/Smoke LED: Flashes Green once approximately every 45 seconds; CO LED: Off Horn: Chirp; Voice: Testing; For 12 seconds; Horn: 3 beeps, pause, repeats 2 more times; Power/Smoke LED: Flash Green THEN Horn: 3 beeps, pause, 3 beeps; Power/Smoke LED: Red in sync with horn; Voice: "Warning, evacuate smoke in Location". Evacuate." Horn: 4 fast beeps, pause, 4 fast beeps; Voice: "Warning, evacuate carbon monoxide in Location, example: 'Basement'". Evacuate." Pause. "Highest carbon monoxide level was [CO level example: 0 ppm]"; Power/Smoke LED: Off; CO LED: Flashes Red in sync with the horn pattern
If Battery Becomes Low	Voice: "Replace battery in Location, example 'Hallway'." Repeated every 5 hours; Horn: chirps approximately every 45 seconds; Power/Smoke LED: Flashes Green approximately every 45 seconds; CO LED: Off
If Alarm is Not Operating Properly	Voice: "Detector error in Location, example 'Hallway', please see manual." Repeated every 5 hours; Horn: 3 chirps approximately every 45 seconds; Power/Smoke LED: Flashes Green in sync with horn; CO LED: Off
Alarm has reached its End of Life	Voice: "Detector error in Location, example 'Basement', please see manual." Repeated every 5 hours; Horn: 5 chirps approximately every 45 seconds; Power/Smoke LED: Flashes Green in sync with horn; CO LED: Off
Alarm Levels of CO are Detected	Voice: "Detector error in Location, example 'Hallway', please see manual." Repeated every 5 hours; Horn: 4 beeps, pause, 4 beeps, repeat; Voice: "Power/Smoke LED: Steady Green for first 12 seconds, then flashes Green once approximately every 45 seconds; CO LED: Red in sync with horn
Smoke is Detected	For 12 seconds; Horn: 3 beeps, pause, repeats 2 more times; Power/Smoke LED: Flashes Green THEN Horn: 3 beeps, pause, 3 beeps; Power/Smoke LED: Red in sync with horn; Voice: "Warning, evacuate smoke in Location". Evacuate."
Smoke Alarm is Silenced	Voice: "Horn silenced. Detector active"; Horn: Silent (for up to 15 minutes); Power/Smoke LED: Flashes Red 2 sec On/2 sec Off; CO LED: Off
CO Alarm is Silenced	Voice: "Horn silenced. Detector active"; Horn: Silent (for up to 4 minutes); Power/Smoke LED: Off; CO LED: Flashes Red

04 ALARM FEATURES

- Early Warning Interconnect:** When one Alarm sounds, all compatible Alarms sound.
- Voice & Location Alerts:** Friendly voice tells you what the danger is and its location.
- End of Life Warning:** Lets you know when it's time to replace.

LATCHING FEATURE

Alarm Latch is activated after an Alarm is exposed to Alarm levels of smoke or carbon monoxide. After smoke or CO levels drop below Alarm levels, the Red Smoke/Power LED and/or the CO LED will begin to flash red On for 2 seconds/Off for 2 seconds. It will continue to flash or "latch" for about 15 minutes, to give you time to determine which unit initiated the Alarm.

Low Battery Latch is activated when the Alarm is in the "low battery condition". When this occurs, the Smoke/Power LED flashes 2 seconds Green On for 2 seconds/Off for 2 seconds for about 15 minutes. This feature is designed to help you identify which Alarm needs to have the battery replaced. Although, the Alarm will sound the low battery chirp approximately once every minute, sometimes during the initial stages of "low battery", the Alarm will chirp in greater intervals than one minute, sometimes up to several hours, until the battery reaches a steady low battery level. This innovative feature eliminates the frustration of waiting for and/or identifying which unit is chirping.

DO NOT LOCK THE BATTERY COMPARTMENT

Do not lock the battery compartment until you have installed the battery and tested the Alarm.

IMPORTANT! If the unit does not Alarm during testing, **DO NOT lock the battery compartment! Install a new battery and test again.** If the Alarm still does not Alarm, replace it immediately.

- Using needle-nose pliers, detach one locking pin from the mounting bracket.
- After batteries are inserted, push the locking pin through the hole near the battery door latch on the back of the Alarm.

TO UNLOCK THE BATTERY COMPARTMENT

- Remove the Alarm from the mounting bracket. If the unit is locked to the bracket, see the section "To Unlock the Mounting Bracket."

- Insert a flathead screwdriver under the head of the locking pin, and gently pry it out of the battery compartment lock. If you want to relatch the battery compartment, save the locking pin.

- To relatch the battery compartment, close the battery door and reinsert locking pin in lock.

- Relatch the Alarm to the mounting bracket.

IMPORTANT! When replacing the batteries, always test the Alarm before relatching the battery compartment.

OPTIONAL LOCKING FEATURE

The optional locking feature is designed to prevent unauthorized removal of the Alarm. It is not necessary to activate the lock in single-family households where unauthorized Alarm removal is not a concern.

Tools you will need: Needle-nose pliers or utility knife, standard flathead screwdriver

The feature uses a locking pin which is molded into the mounting bracket. Remove locking pin by using needle-nose pliers or a utility knife.

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

TO LOCK THE MOUNTING BRACKET

- Using needle-nose pliers, detach the pin from the mounting bracket.
- Insert the locking pin through the hole on the back of the Smoke Alarm as shown in the diagram.
- When you attach the Alarm to the mounting bracket the locking pin's head will fit into a notch on the bracket.

TO UNLOCK THE MOUNTING BRACKET

- Insert a flathead screwdriver in between the mounting bracket and the locking pin.
- Pry the Alarm away from the bracket by pushing up the screwdriver and turning the Alarm counterclockwise (left) at the same time.

05 TESTING & MAINTENANCE

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 your home. **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, step 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 by pressing and holding the Test/Silence button on the Alarm cover until Alarm voice says "Testing" (typically 3-5 seconds).

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.

REGULAR MAINTENANCE

This unit has been designed to be as 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 manufacturer 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.
- Protect or cover the alarm when doing any maintenance to home i.e. sanding floors, painting, drywall patching, etc. to prevent contamination.

CHOOSING A REPLACEMENT BATTERY:

Your Smoke/CO Alarm requires two standard AA batteries. The following batteries are acceptable as replacements: Eveready Energizer E91 or 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. Clean the battery contacts and also those of the device prior to battery installation. Install batteries correctly with regard to polarity (+ and -).
- Please dispose of or recycle used batteries properly, following any local regulations. Consult your local waste management authority or recycling organization for an electronics 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 202-625-3533 as serious injury may occur.

IMPORTANT!

Actual battery 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 the unit starts "chirping" (the "low battery warning").

To replace the batteries (without removing Alarm from the ceiling or wall):

- Open the battery compartment.
- Press tabs A and B as shown in the diagram and remove each battery.
- 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.
- Close the battery compartment, and then test the unit by pressing the Test/Silence button.

TROUBLESHOOTING GUIDE

IF THE ALARM...	PROBLEM...	YOU SHOULD...
Horn "chirps" about once every 45 seconds. Voice: "Replace battery in Location" every 5 hours; Power/Smoke LED: Flashes Green 2 sec on/2 sec off	Low battery warning.	Install two new AA batteries*.
Horn sounds three "chirps" approximately every 45 seconds; Voice: "Detector error in Location, example 'Hallway', please see manual." Repeated every 5 hours; Power/Smoke LED: Flashes Green in sync with horn	MAJUNCTION SIGNAL. Device is not working properly, and needs to be replaced.	If unit is under warranty, contact Consumer Support to process a warranty replacement.
Horn "chirps" 5 times approximately every 45 seconds; Voice: "Detector error in Location, example 'Basement', please see manual." Repeated every 5 hours; Power/Smoke LED: Flashes Green in sync with horn	END OF LIFE SIGNAL. Alarm needs to be replaced.	Immediately replace the Alarm.
The Alarms are linked but do not communicate with each other.	Possible interference. Reference the Wireless Operation section of this manual.	Move Alarms to different locations. Add an additional Alarm between the unresponsive Alarms to route the signal around obstructions.

CARBON MONOXIDE ALARM ONLY

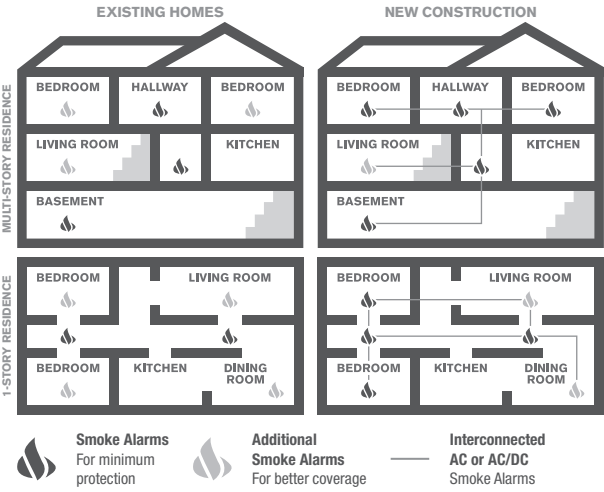
CO Alarm goes back into Alarm 4 minutes after you Silence it.	CO levels indicate a potentially dangerous situation.	IF YOU ARE FEELING SYMPTOMS OF CO POISONING, EVACUATE your home and call 911 or the Fire Department. Refer to "If The CO Alarm Sounds" for details.
CO Alarm sounds frequently even though no high levels of CO are revealed in an investigation.	The CO Alarm may be improperly located. Refer to "Where to Install This Alarm" for details.	Relocate your Alarm. If frequent Alarms continue, have home checked for potential CO problems. You may be experiencing an intermittent CO problem.
Smoke Alarm sounds when no smoke is visible.	Unwanted Alarm may be caused by non-emergency source	Silence Alarm using Test/Silence button; clean the Alarm's cover with a soft, clean cloth. If frequent unwanted Alarms continue, relocate your Alarm. Alarm may be too close to a kitchen, cooking appliance, or steamy bathroom.

*For a list of acceptable replacement batteries, see "Regular Maintenance."

If you have questions that cannot be answered by reading this manual, call the Consumer Support Team at 1-800-323-9005.

FIRE SAFETY TIPS

Follow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smoke in bed. 2) Keep matches or 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 debris-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 let rubbish accumulate. 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 level, and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper level in case stairs are blocked; 9



11 REGULATORY INFORMATION FOR CO ALARMS

WHAT LEVELS OF CO CAUSE AN ALARM?

Underwriters Laboratories Inc. Standard UL2034 requires residential CO Alarms to sound when exposed to levels of CO and exposure times as described below. They are measured in parts per million (ppm) of CO over time (in minutes).

UL2034 Required Alarm Points*:

- If the Alarm is exposed to 400 ppm of CO, IT MUST ALARM BETWEEN 4 and 15 MINUTES.
- If the Alarm is exposed to 150 ppm of CO, IT MUST ALARM BETWEEN 10 and 50 MINUTES.
- If the Alarm is exposed to 70 ppm if CO, IT MUST ALARM BETWEEN 60 and 240 MINUTES.

* Approximately 10% COHb exposure at levels of 10% to 95% Relative Humidity (RH).

The unit is designed not to Alarm when exposed to a constant level of 30 ppm for 30 days.

IMPORTANT!

CO Alarms are designed to Alarm before there is an immediate life threat. Since you cannot see or smell CO, never assume it's not present.

- An exposure to 100 ppm of CO for 20 minutes may not affect average, healthy adults, but after 4 hours the same level may cause headaches.
- An exposure to 400 ppm of CO may cause headaches in average, healthy adults after 35 minutes, but can cause death after 2 hours.

Standards: Underwriters Laboratories Inc. Single and Multiple Station Carbon Monoxide Alarms UL2034.

According to Underwriters Laboratories Inc. UL2034, Section 1-1, 2: "Carbon monoxide Alarms covered by these requirements are intended to respond to the presence of carbon monoxide from sources such as, but not limited to, exhaust from internal-combustion engines, abnormal operation of fuel-fired appliances, and fireplaces. CO Alarms are intended to Alarm at carbon monoxide levels below those that could cause a loss of ability to react to the dangers of carbon monoxide exposure." This CO Alarm monitors the air at the Alarm, and is designed to Alarm before CO levels become life threatening. This allows you precious time to leave the house and correct the problem. This is only possible if Alarms are located, installed, and maintained as described in this manual.

Gas Detection at Typical Temperature and Humidity Ranges: The CO Alarm is not formulated to detect CO levels below 30 ppm typically. UL tested for false Alarm resistance to Methane (500 ppm), Butane (300 ppm), Heptane (500 ppm), Ethyl Acetate (200 ppm), Isopropyl Alcohol (200 ppm) and Carbon Dioxide (5000 ppm). Values measure gas and vapor concentrations in parts per million.

Audible Alarm: 95 dB minimum at 10 feet (3 meters).

12 AGENCY PLACEMENT RECOMMENDATIONS

Standards: Underwriters Laboratories Inc. Single and Multiple Station Smoke Alarms 217.

NFPA 72 CHAPTER 29 "FOR YOUR INFORMATION, THE NATIONAL FIRE ALARM AND SIGNALING CODE, NFPA 72, READS AS FOLLOWS:"

29.5.1* Required Detection.

29.5.1.1* Where required by other governing laws, codes, or standards for a specific type of occupancy, approved single and multiple-station Smoke Alarms shall be installed as follows:

1. "In all sleeping rooms and guest rooms
2. "Outside of each separate dwelling unit sleeping area, within 21 ft (6.4 m) of any door to a sleeping room, with the distance measured along a path of travel
3. On every level of a dwelling unit, including basements
4. On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics
5. "In the living area(s) of a guest suite
6. In the living area(s) of a residential board and care occupancy (small facility)

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CALIFORNIA STATE FIRE MARSHAL (CSFM)

Early warning detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows: A Smoke Alarm installed in each separate sleeping area (in the vicinity, but outside bedrooms), and Heat or Smoke Alarms in the living rooms, dining rooms, bedrooms, kitchens, hallways, finished attics, furnace rooms, closets, utility and storage rooms, basements, and attached garages.

13 SPECIAL COMPLIANCE CONSIDERATIONS

This Smoke Alarm is suitable for use in apartments, condominiums, townhouses, hospitals, day care facilities, health care facilities, boarding houses, group homes and dormitories provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, hallways, or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations.

This Smoke Alarm alone is not a suitable substitute for complete fire detection systems in places housing many people—like apartment buildings, condominiums, hotels, motels, dormitories, hospitals, health care facilities, nursing homes, day care facilities, or group homes of any kind. It is not a suitable substitute for complete fire detection systems in warehouses, industrial facilities, commercial buildings, and special-purpose non-residential buildings which require special fire detection and Alarm systems. Depending on the building codes in your area, this Smoke Alarm may be used to provide additional protection in these facilities.

In new construction, most building codes require the use of AC or AC/DC powered Smoke Alarms only. In existing construction, AC, AC/DC, or DC powered Smoke Alarms can be used as specified by local building codes. THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269). Refer to NFPA 101 (Life Safety Code), local building codes, or consult your Fire Department for detailed fire protection requirements in buildings not defined as "households".

HUD MAP PROGRAM

Certain HUD battery powered Smoke Alarm applications, especially those that fall under HUD 223(f) MAP (Multi-Family Accelerated Processing), may require a 10 Year sealed tamper resistant battery. This Alarm does not meet that requirement. Substitute First Alert SA340B.

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, could void the user's authority to operate the equipment.

FCC ID: M7U-500V

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.

14 GENERAL LIMITATIONS OF SMOKE/CO ALARMS

This Smoke/CO Alarm is intended for residential use. It is not intended for use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for Carbon Monoxide Alarms must be met. The Smoke Alarm portion of this device is not intended to alert hearing impaired residents. Special purpose Smoke Alarms should be installed for hearing impaired residents (CO Alarms are not yet available for the hearing impaired).

Smoke/CO Alarms may not waken all individuals. Practice the escape plan at least twice a year, making sure that everyone is involved – from kids to grandparents. Allow children to master fire escape planning and practice before holding a fire drill at night when they are sleeping. If children or others do not readily waken to the sound of the Smoke/CO Alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to assist them in fire drill and in the event of an emergency. It is recommended that you hold a fire drill while family members are sleeping in order to determine their response to the sound of the Smoke/CO Alarm while sleeping and to determine whether they may need assistance in the event of an emergency.

Smoke/CO Alarms cannot work without power. Battery operated units cannot work if the batteries are missing, disconnected or dead. If the wrong type of batteries are used, or if the batteries are not installed correctly, AC units cannot work if the AC power is cut off for any reason (open fuse or circuit breaker, failure along a power line or at a power station, electrical fire that burns the electrical wires, etc.). If you are concerned about the limitations of battery or AC power, install both types of units.

This Smoke/CO Alarm will not sense smoke or CO that does not reach the sensors. It will only sense smoke or CO at the sensor. **Smoke or CO may be present in other areas.** Doors or other obstructions may affect the rate at which CO or smoke reaches the sensors. If bedroom doors are usually closed at night, we recommend you install an Alarm device (Combination CO and Smoke Alarm, or separate CO Alarms and Smoke Alarms) in each bedroom and in the hallway between them.

This Smoke/CO Alarm may not sense smoke or CO on another level of the home. Example: This Alarm device, installed on the second floor, may not sense smoke or CO in the basement. For this reason, one Alarm device may not give adequate early warning. Recommended minimum protection is one Alarm device in every sleeping area, every bedroom, and on every level of your home. Some experts recommend battery powered smoke and CO Alarms be used in conjunction with interconnected AC powered Smoke Alarms. For details, see "About Smoke Alarms" for details.

Smoke/CO Alarms may not be heard. The Alarm horn loudness meets or exceeds current UL standards of 85 dB at 10 feet (3 meters). However, if the Smoke/CO Alarm is installed outside the bedroom, it may not wake up a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. This is especially true if the door is closed or only partly open. Even persons who are awake may not hear the Alarm horn if the sound is blocked by distance or closed doors. Noise from traffic, stereo, radio, television, air conditioner, or other appliances may also prevent alert persons from hearing the Alarm horn. This Smoke/CO Alarm is not intended for people who are hearing impaired.

The Alarm may not have time to Alarm before the fire itself causes damage, injury, or death, since smoke from some fires may not reach the unit immediately. Examples of this include persons smoking in bed, children playing with matches, when a person's clothing catches fire while cooking, fires caused by violent explosions resulting from escaping gas, or incendiary fires where the fire grows so rapidly that an occupant's egress is blocked even with properly located Smoke Alarms.

This Smoke/CO Alarm is not a substitute for life insurance. Though this Smoke/CO Alarm warns against increasing CO levels or the presence of smoke, First Alert does not warrant or imply in any way that they will protect lives. Homeowners and renters must still insure their lives.

This Smoke/CO Alarm has a limited life. Although this Smoke/CO Alarm and all of its parts have passed many stringent tests and are designed to be as reliable as possible, any of these parts could fail at any time. Therefore, you must test this device weekly. The unit should be replaced immediately if it is not operating properly.

This Smoke/CO Alarm is not foolproof. Like all other electronic devices, this Smoke/CO Alarm has limitations. It can only detect smoke or CO that reaches the sensors. It may not give early warning of the source of smoke or CO in a remote part of the home, away from the Alarm device.

15 LIMITED WARRANTY

First Alert® brand products warrants that for a period of ten years from the date of purchase, this product will be free from defects in material and workmanship. First Alert, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. First Alert dealers, service centers, or retail stores selling First Alert products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than First Alert or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

First Alert shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states, provinces or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

HOW TO OBTAIN WARRANTY SERVICE

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Support Team at 1-800-323-9005. To assist us in serving you, please have the model number and date of purchase available when calling.

Battery: First Alert make no warranty, express or implied, written or oral, including that of merchantability or fitness for any particular purpose with respect to battery.

Disposal: Please follow local guidelines regarding the disposal or recycling of batteries and/or electronics.

For your records, please record:

Date Purchased:

Where Purchased:

Date Installed: / / Month/Year

Replace Alarm 10 years after installation.

Please write the date in the space provided: / / Month/Year

The Alarm will also provide an audible End-of-Life Signal approximately 10 years after installation to remind you to replace the unit.

The End-of-Life Signal can be silenced for up to 2 days. Do not unplug or deactivate the Alarm until you get replacement.

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CONFORMS TO UL STD 217 AND UL STD 2034

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