USER'S MANUAL 10-YEAR SEALED BATTERY COMBINATION CARBON MONOXIDE & SMOKE ALARM WITH VOICE & LOCATION

SEPARATE SENSORS TO DETECT SERVICE SENSORS TO DELECT SMOKE AND CO; THE TWO ALARM SYSTEMS WORK INDEPENDENTLY VOICE WITH PROGRAMMABLE LOCATION SEPARATE AUDIBLE AND VISUAL SIGNALS TO INDICATE ALARM LEVELS OF SMOKE OR CO 10-YEAR SEALED BATTERY ALARM WITH VOICE ALERTS AND PATENTED SMOKE ENTRY SYSTEM

IMPORTANT! PLEASE READ CAREFULLY AND SAVE

The warnings/limitations card and manual contains important information about your smoke & carbon monoxide (CQ) 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. Reference product card for additional information. Para el manual del usuario en español, por favor visite www.firstalert.com

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 provide you with early warning of a smoke and/or carbon monoxide danger.

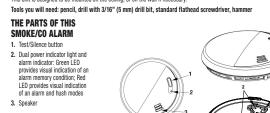
All First Alert[®] smoke alarms conform to regulatory requirements, including UL217 and are designed to detect particles of combustion. Smoke particles of varying number and size are produced in all fires.

- lonization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fire: **(i)**
- which consume combustible materials rapidly and spread quickly. Sources of these fire 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. p 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 hom

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



1. Mounting bracket 2. Mounting slots 3. Turn this way to attach 4. Turn this way to remov

FOLLOW THESE SIMPLE STEPS

1. Hold the mounting bracket against the ceiling (or wall) so the two clusters of universal mounting holes are aligned approximately at the 9:00 and 3:00 o/clock positions. See image. Choose one of the three sets of holes shown, A, B or C (see image) and trace around one of the sets. Be sure to choose a top and bottom sido to opposite sides or you can rotate the universal mounting bracket into position later. This will make it easier in the future to remove the mounting bracket without completely removing the screws.

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

2. Put the unit where it won't get covered with dust when you drill the mounting holes. 3. 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.

5. Install the screws but do not tighten completely. Attach the mounting bracket by aligning the screws in the open portion of the universal mounting slots and rotating the bracket int place. Tighten the screws until they are snug to secure the bracket. Do not over tighten. 6. Activating the battery. Mount alarm to mounting bracket to activate. Once unit is activated, it cannot be turned off. NOTE: After you activate the battery, the power indicator light may flash. (If the unit alarms, the light will blink rapidly, and the horn will repeatedly sound 3 beeps, pause, 3 beeps.) Once the smoke alarm is on the bracket, you can rotate the alarm to adjust the alignment.

7. Test the alarm. See "Weekly Testing."

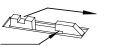
TO PERMANENTLY DEACTIVATE THE SMOKE/CO ALARM

 After 10 years of operation or Low Battery Warning, deactivate the alarm: Insert a tool below
edge where shown and break tab. Then slide activation switch to deactivate mode. NOTE: At end of life or low battery indication (chirp): unit must be put into deactivation mode to deactivate remaining stored energy in battery. Unit w longer function once put into this mode. Unit will resist re-mounting. Unit will no



F FIRST ALERT

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FFIRST ALERT

Printed in Mexico M08-0469-160324-US L 12/17

Model PC1210V

CONFORMS TO UL STD 217 AND UL STD 2034

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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

ACAUTION! 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. AWARNING!

- 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.
- to response to an annum to response to res
- 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 indor 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. Individuals with medical conditions that may make them more sensitive to carbon monoxide may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm. For additional information on carbon monoxide and your medical condition contact your physician.

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 level, in every sleeping area, and in every bedroom (See "Regulatory Information for Smoke Alarms" for details on the NFPA recommendations). For C0 alarms, the National Fire Protection Association (NFPA) recommends that a C0 alarms should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional C0 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 funace 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 unwarted 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 level stairs. · At the bottom of the basement stairs.

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 unauthori

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.

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

alarm removal is not a concern. **Tools you will need:** Needle-nose pliers or utility knife, standard flathead screwdriver

IMPORTANT!

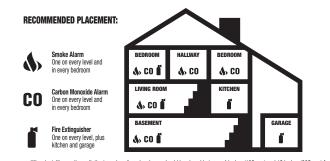
MOUNTING BRACKET

Using needle-nose pliers detach the pin from the

mounting bracket

TO LOCK THE

• 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).



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 as close to 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 well 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 from 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 (store, furnace, water heater, space heater) it possible. In areas where a 20-dol (6 meter glitistance is not possible – in mobilar, 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 tubel-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-airconditioned 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. See "Avoiding 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 this 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 the 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 ceil

TROUBLESHOOTING GUIDE			
IF THE ALARM	PROBLEM	YOU SHOULD	
Horn "chirps" about once per minute; Voice: "Replace battery in [Location]" every 5 hours	Low Battery Warning.	Immediately replace the alarm.	
Horn sounds 3 "chirps" every minute; Voice: "Detector error in [Location, example "Hallway"], please see manual" repeated every 5 hours; LED has 3 Green flashes with "chirps".	MALFUNCTION SIGNAL. Device is not working properly, and needs to be replaced.	Units under warranty should be returned to manufacturer for replacement. See "Limited Warranty" for details.	
The light flashes GREEN and the horn sounds 5 "chirps" every minute; Voice : "Detector error in [Location, example "Basement"], please see manual." Repeated every 5 hours.	END OF LIFE SIGNAL. Alarm needs to be replaced.	Immediately replace the alarm.	
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 a continue, have home rechecked CO problems. You may be experi- an intermittent CO problem		
SMOKE ALARM ONLY:			
Smoke alarm sounds when no smoke is visible.	Unwanted alarm may be caused by non- emergency source like cooking smoke.	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 kitchei cooking appliance, or steamy bathroom.	

STEP BY STEP CHINE TO PROGRAMMING THIS ALARM

FOR FIRST TIME AND WHEN CHANGING BATTERIES			
Action:	Alarm Will Say:		
Activate alarm.	"Welcome, First Alert carbon monoxide and smoke alarm." "No location programmed" if first time or "[Location, example: "Hallway"] 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: "Hallway"] location saved." If no location is chosen: "No location saved."		
Your alarm has now been programmed for the location of your			

Invailable locations: Basement, Hallway, Office, Child's Bedroom, Kitchen, Utility Room, Dining Room, iving Room, Family Room, Master Bedroom, Guest Bedroom, No Location

For reprogramming: When it is necessary to reprogram the alarm after the unit has been activated and is in normal operation: Tap the test button 5 times to reset the alarm to again access the programming menu.

STEP BY STEP GUIDE TO PROGRAMMING THIS ALARM

STEP BT STEP GUIDE TO PROGRAMMING THIS ALARM WHAT YOU WILL SEE AND HEAR WITH THIS ALARM				
Under Normal Operations	Voice: Silent Horn: Silent Power LED: Flashes Green once a minute			
When You Test the Alarm	Voice: "Testing." "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate." Horn: 3 beeps, pouse, 3 beeps, voice Power LED: Flashes Red followed by Voice: "Warning, evacuate carbon monxidu in [Location, example: "Hallway"]. Evacuate." Horn: 4 beeps, pause, 4 beeps, voice Power LED: Flashes Red			
If Battery Becomes Low	Voice: "Replace battery in [Location, example "Hallway"]." Repeated every 5 hours Horn: chirps once a minute Power LED: Flashes Green approximately once a minute			
If Alarm is Not Operating Properly (MALFUNCTION SIGNAL)	Voice: "Detector error in [Location, example "Hallway"], please see manual." Repeated every 5 hours Horn: 3 chirps every minute Power LED: Three Green flashes approximately once a minute			
Alarm Has Reached its End of Life	Voice: "Detector error in [Location, example "Basement"], please see manual." Repeated every 5 hours Hom: 5 chirps every minute Power LED: Five Green flashes approximately once a minute			
Alarm Levels of CO are Detected	Voice: "Warning, evacuate carbon monoxide in [Location, example: "Hallway"]. Evacuate." * ppm." Horn: 4 beeps, pause, 4 beeps, voice* Power LED: Flashes Red			
Smoke is Detected	Voice: "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate." Horn: 3 beeps, pause, 3 beeps, voice Power LED: Flashes Red			
Smoke Alarm is Silenced	Voice: Silent Horn: Off Power LED: Flashes Red			
CO Alarm is Silenced	Voice: Silent Horn: Off Power LED: Flashes Red			

TESTING & MAINTENANCE WEEKLY TESTING

AWARNING!

- 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 ful to your hearing. When testing, step away when horn starts so

ACAUTION!

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). During testing, you will see and hear the following sequence:

says recording (rippearly or seconds) coming tearly, you muse an near the normal sequence. The alarm Voice will say "Faining," The Horm Will Sound's Deeps, pause, 3 beeps. The alarm Voice will say "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate." The Power LED flashes Red.

Next the Horn will sound 4 beeps, pause, 4 beeps. The alarm Voice will say "Warning, evacuate carbon monoxide in [Location, example: "Hallway"]. Evacuate." The 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. 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.

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 the unit starts "chirping" (the "Low Battery Warning"). 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 childrer, 2) Store flammable materials in proper containers; 4) Keep electrical appliances in good condition and don't overdead electrical circuits; 5) Keep stores, barbecue grulfs, fireplaces and chimers; greases and debris-risc; 6) Never leave anything cooking on the store unattended; 7) Keep ortable heaters and open flames, like candies, away from flammable materials; 8) Don't let rubbish accumulate. Keep alarms clean, and test them weekly. Replace alarms mendiately if they are not working from properly. smoke alarms that do not work cannot later you to a firs. Keep at least one working free strainers or 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.

Alarm Will Say:

"Welcome, First Alert carbon monoxide and smoke alarm.

'To select location, press and hold test button now."

"No location programmed" if first time or "[Location, example "Hallway"] location programmed" when changing batteries.

"To save location, press and hold test button after location is heard." alarm will speak list of locations (see below).

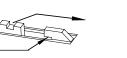
"[Location, example: "Hallway"] location saved," If no location is chosen: "No location saved,"

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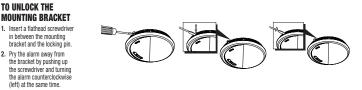
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Replace by









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E ACKET screwdriver ounting ocking pin. ay from shing up	

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10-YEAR SEALED BATTERY COMBINATION CARBON

MONOXIDE & SMOKE ALARM WITH VOICE & LOCATION

INTRODUCTION

USER'S MANUAL

SEPARATE SENSORS TO DETECT

SMOKE AND CO; THE TWO ALARM SYSTEMS WORK INDEPENDENTLY

VOICE WITH PROGRAMMABLE LOCATION

SEPARATE AUDIBLE AND VISUAL SIGNALS TO INDICATE ALARM LEVELS OF SMOKE OR CO

10-YEAR SEALED BATTERY ALARM WITH VOICE ALERTS AND PATENTED SMOKE ENTRY SYSTEM

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- For maximum protection, use both types of smoke alarms on each level and in every bedroom of your home
- Printed in Mexico M08-0469-160324-US L 12/17 CONFORMS TO UL STD 217 AND UL STD 2034

The Silence Features are for your convenience only and will not correct a problem. See "Using the Silence Features" fi 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 iately! If the alarm is not working properly, it cannot alert you to a problem Model PC1210V

IMPORTANT!

ACAUTION!

AWARNING!

BASIC SAFETY INFORMATION

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

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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 level, in every sleeping area, and in every bedroom (See "Regulatory Information for Smoke Alarms" for details on the NFPA recommendations). For C0 alarms, the National Fire Protection Association (NFPA) recommendents that a C0 alarms should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional C0 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 funace 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 unwarted alarms. IN GENERAL, INSTALL COMBINATION SMOKE AND CARBON MONOXIDE ALARMS:

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- · 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 level stairs.
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- 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).

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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.

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 scr THE PARTS OF THIS SMOKE/CO ALARM 1. Test/Silence button 2. Dual power indicator light and alarm indicator: Green LED provides visual indication of an alarm memory condition; Red LED provides visual indication of an alarm and hush modes Speaker

1. Mounting bracket 2. Mounting slots 3. Turn this way to attach 4. Turn this way to remove

FOLLOW THESE SIMPLE STEPS

1. Hold the mounting bracket against the ceiling (or wall) so the two clusters of universal mounting holes are aligned approximately at the 9:00 and 3:00 o'clock positions. See image. Choose one of the three sets of holes shown, A, B or C (see image) and trace around one of the sets. Be sure to choose a top and bottom slot on opposite sides oy uo can rotate the universal mounting bracket thing position later. This will make it easier in the future to remove the mounting bracket without completely removing the screws.

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

2. Put the unit where it won't get covered with dust when you drill the mounting holes. 3. 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. 5. Install the screws but do not tighten completely. Attach the mounting bracket by aligning the screws in the open portion of the universal mounting slots and rotating the bracket int place. Tighten the screws until they are snug to secure the bracket. Do not over tighten.

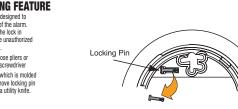
6. Activating the battery. Mount alarm to mounting bracket to activate. Once unit is activated, it cannot be turned off

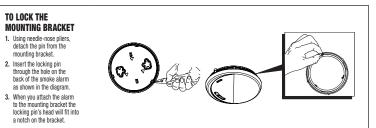
NOTE: After you activate the battery, the power indicator light may flash. (If the unit alarms, the light will blink rapidly, and the horn will repeatedly sound 3 beeps, pause, 3 beeps.) Once the smoke alarm is on the bracket, you can rotate the alarm to adjust the alignment. 7. Test the alarm. See "Weekly Testing."

TO PERMANENTLY DEACTIVATE THE SMOKE/CO ALARM

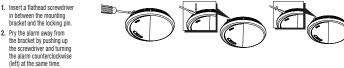
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TO UNLOCK THE MOUNTING BRACKET



	kitchen and garage	() 00		

· 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

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GARAGE

INSTALLING SMOKE/CO ALARMS IN MOBILE HOMES For minimum security install one smoke/CO alarm as close to 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 well insulated, or if you are unsure of the amount of insulation, it is important to install units on inside walls only.

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BASEMENT

WHERE THIS ALARM SHOULD NOT BE INSTALLED

DO NOT LOCATE THIS SMOKE/CO ALARM:

RECOMMENDED PLACEMENT:

Smoke Alarm

Carbon Monoxide Ala One on every level and in every bedroom

Fire Extinguisher

One on every level and in every bedroom

CO

In garages, furnace rooms, crawl spaces and unfinished attics. Avoid extremely dusty, dirty or greasy areas. Where combustion particles are produced. Combustion particles from 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 (store, furnace, water heater, space heater) it possible. In a reas where a 20-dol (6 meter) faitance is not possible – in mobilar, 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 "uwmanted" 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-airconditioned 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. See "Avoiding 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 this 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 the 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.

TROUBLESHOOTING GUIDE IF THE ALARM. PROBLEM. YOU SHOULD ... Horn "chirps" about once per minute; Voice: "Replace battery in Low Battery Warning. Immediately replace the alarm. [Location]" every 5 hour Horn sounds 3 "chirps" every minute Units under warranty should be returned to manufacturer for replacement. See "Limited Warranty" for details. MALFUNCTION SIGNAL. Device Voice: "Detector error in [Location, example is not working properly, and needs to be replaced. lallway"], please see manual" repeated eve 5 hours; LED has 3 Green flashes with "chirps The light flashes GREEN and the horn sounds 5 "chirps" every minut END OF LIFE SIGNAL. Alarm Voice: "Detector error in [Location example "Basement"], please see manual." Repeated every 5 hours. Immediately replace the alarm. CARBON MONOXIDE ALARM ONLY IF YOU ARE FEELING SYMPTOMS OF CO POISONING, EVACUATE your home and CO alarm goes back into alarm 4 CO levels indicate a potentially minutes after you silence it. dangerous situation call 911 or the Fire Department. Refer to "If The CO Alarm Sounds" for details. Relocate your alarm. If frequent alarms CO alarm sounds frequently even though no high levels of CO are The CO alarm may be improperly located. Refer to "Where to Install continue, have home rechecked for potential CO problems. You may be experiencing an intermittent CO problem revealed in an investigatior This Alarm" for details. SMOKE ALARM ONLY Silence alarm using Test/Silence button; clean the alarm's cover with a soft, clean cloth. If frequent unwanted alarms continue, relocate Jnwanted alarm may be caused by non Smoke alarm sounds when no smoke is visible emergency source like cooking smol our alarm. alarm may be too close to a kitchen, poking appliance, or steamy bathroor If you have questions that cannot be answered by reading this manual, call the Customer Service Team at 1-800-323-9005

STEP BY STEP GUIDE TO PROGRAMMING THIS ALARM

IGING BATTERIES

OR FIRST TIME AND WHEN CH

Press & hold test button if you would like to program the location or change the location of the alarm. Release button after alarm responds.

After you hear the location of where you are placing

Action

Activate alarm

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, iving Room, Family Room, Master Bedroom, Guest Bedroom, No Location For reprogramming: When it is necessary to reprogram the alarm after the unit has been activated and is in normal eration: Tap the test button 5 times to reset the alarm to again access the programming menu

STEP BY STEP GUIDE TO PROGRAMMING THIS ALARM

WHAT YOU WILL SEE AND HEAR WITH THIS ALARM					
Under Normal Operations	Voice: Silent Horn: Silent Power LED: Flashes Green once a minute				
When You Test the Alarm	Voice: "Testing." "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate." Horn: 5 beeps, pause, 3 beeps, voice Power LED: Flashes Red followed by Voice: "Warning, evacuate carbon monoxide in [Location, example: "Hallway"]. Evacuate." Horn: 4 beeps, pause, 4 beeps, voice Power LED: Flashes Red				
lf Battery Becomes Low	Voice: "Replace battery in [Location, example "Hallway"]." Repeated every 5 hours Horn: chirps once a minute Power LED: Flashes Green approximately once a minute				
If Alarm is Not Operating Properly (MALFUNCTION SIGNAL)	Voice: "Detector error in [Location, example "Hallway"], please see manual." Repeated every 5 hours Horn: 3 chirps every minute Power LED: Three Green flashes approximately once a minute				
Alarm Has Reached its End of Life	Voice: "Detector error in [Location, example "Basement"], please see manual." Repeated every 5 hours Horn: 5 chirps every minute Power LED: Five Green flashes approximately once a minute				
Alarm Levels of CO are Detected	Voice: "Warning, evacuate carbon monoxide in [Location, example: "Hallway"]. Evacuate." " ppm." Horn: 4 beeps, pause, 4 beeps, voice" Power LED: Flashes Red				
Smoke is Detected	Voice: "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate." Horn: 3 beeps, pause, 3 beeps, voice Power LED: Flashes Red				
Smoke Alarm is Silenced	Voice: Silent Horn: Off Power LED: Flashes Red				
CO Alarm is Silenced	Voice: Silent Horn: Off Power LED: Flashes Red				
	·				

TESTING & MAINTENANCE WEEKLY TESTING

AWARNING!

- 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
- ul to your hearing. When testing, step away when horn starts soun

ACAUTION!

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/C0 alarm by pressing and holding the Test/Silence button on the alarm cover until alarm Voice says "Testing" (typically 3-5 seconds). During testing, you will see and hear the following sequence:

- The alarm Voice will say "Testing," The Horn will sound 3 beeps, pause 3 beeps. The alarm Voice will say "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate." The Power LED flashes Red.
- Next the Horn will sound 4 beeps, pause, 4 beeps. The alarm Voice will say "Warning, evacuate carbon
 monoxide in [Location, example: "Hallway"]. Evacuate." The 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.

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

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 the unit starts "chirping" (the "Low Battery Warning").

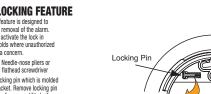
FIRE SAFETY TIPS

Follow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smoke in bed. 2) Keep matches or lighters away from Follow safety tures and prevent nazadous studious, if use simoling internals property, never simoler in due, 2 neep inductions of ingines away non-children; 3) Store flammable materials in proper containers; 4) Keep leaferchai appliances in good condition and don't overload electrical aircuits; 5) Keep stows, barbecue grills, freplaces and chimmesy 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 lift year end tworking properly. smoke alarms that do not work cannot aler ty ou to a fire. Keep at least one working free vertinguisher 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.



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 pir and the lock and pry the pin out of the lock.



IF YOUR SMOKE/CO ALARM SOUNDS

Type of Alarm	What You See and Hear
Carbon Monoxide (CO)	Voice: "Warning, evacuate carbon monoxide in [Location, example: "Hallway"]. Evacuate." " ppm."
	Horn: 4 beeps, pause, 4 beeps, voice LED: Flashes Red
Smoke	Voice: "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate."
Silloke	Horn: 3 beeps, pause, 3 beeps, voice LED: Flashes Red

AWARNING! See "General Limitations of smoke/CO alarms" for details.

IF THE CO ALARM SOUNDS

AWARNING!

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! IF THE CO ALARM SIGNAL SOUNDS:

Press the Test/Silence buttor

2. Call your emergency services, fire department or 911. Write down the number of your local emergency service here:

"ALARM-MOVE TO FRESH AIR"

If you hear the CO alarm horn and the CO red light is flashing, mov everyone to a source of fresh air. DO NOT deactivate the alarm!

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 service responder has arrived, the premises have been aird out, and your C0 alarm remains in its normal contition.

After following steps 1-3, if your C0 after reactivates within a 24-hour period, repeat steps 1-3 and call a qualified applance technician to investigat for sources of C0 from fuel-burning equipment and applances, and inspect for proper operation of this equipment. If produens are identified during the 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 C0 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 app

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."

AFTER AN ALARM

After the emergency responders arrive, the premises aired out, and your CO alarm remains in its normal condition, you can check what the highest carbon monoxide level sensed was:

Action:	Alarm Will Say:
Press & hold test button	"Highest carbon monoxide level was ppm. Please see manual." "To clear highest carbon monoxide level, press and hold test button now."
Press & hold test button, if you would like to clear the highest level sensed. If you would like to keep the highest level in memory, do not press anything.	"Highest carbon monoxide level cleared." alarm will say nothing.

REGULATORY INFORMATION FOR CO ALARMS

WHAT I EVELS 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.

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, halways, or porches. Using this smoke alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations.

IF THE SMOKE ALARM SOUNDS:

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

Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.

Cover your nose and mouth with a cloth (preferably damp). Take short, shallow breaths

Call the Fire Department as soon as possible from outside. Give your address, then your name.

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.

Meet at your planned meeting place outside your home, and do a head count to make sure everybody got out safely.

er deactivate the unit to quiet an unwanted alarm. Deactivating the alarm disables the unit and removes your protection

When the CO alarm is silenced

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

This silence feature can temporarily quiet the Low Battery Warning "chirp". You can silence the Low Battery Warning "chirp" by pressing the Test/ Silence button on the alarm. Once the Low Battery Warning "chirp" silence feature is activated, the unit continues to flash the Green light once a minute. After time, the low battery "chirp" will resume. **Replace the alarm as soon as possible**; this unit will not operate without battery power! **To deactivate the TestVilence** 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).

AC powered smoke alarms: Can be interconnected so if one unit senses smoke, all units alarm. They do not operate if electricity fails. AC with battery (DC) back-up: will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician

Smoke/CO alarms for solar or wind energy users and battery backup power systems: AC powered smoke/CO alarms should only be operated with true or pure sine wave inverters. Operating this alarm with most battery-powered UPS (uninterruptible power supply) products or square wave or "quasi sine wave" inverters will damage the laarm. If you are not sure about your inverter or UPS type, please consult with the manufacture to verify.

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. Can be interconnected so if one unit senses smoke, all units alarm.

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 rikn. Ut 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. Refer to NFPA 72 (National Fire Alarm and Signaling Code) and NFPA 101 (Life Safety Code), local building codes, or consult your Fire Department for detailed fire protection requirements in buildings not defined as "buseholds".

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.

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.

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:

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

All these smoke alarms are designed to provide early warning of fires if located, installed and cared for a described in the user's manual, and if smoke reaches the alarm. If you are unsure which type of unit to install, refer to National Fire Protection Association, NIPA 72 (National Fire Atam and Signaling) code) and NFPA 101 (Life Safety Code), National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. Local building codes may also require specific units in new construction or in different areas of the home.

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 C0 problem or extinguish a fire. The silence feature can temporarily quiet an unwanted alarm for server al multices. You can silence this smoke/C0 dame by pressing the Fest/Silence button on the alarm cover for at least 3-5 seconds. After the Test/Silence button is released, the Red LED blinks during the silence mode.

This silence feature can temporarily quiet the End of Life warning "chirp" for up to 2 days. You 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.

Battery (DC) operated smoke alarms: Provide protection even when electricity fails, provided the batteries are fresh and correctly installed. Units are easy to install, and do not require professional installation.

· Don't panic; stay calm. Follow your family escape plan.

· Never go back inside a burning building for any reason. Contact your Fire Department for ideas on making your home safer.

USING THE SILENCE FEATURES

When the smoke alarm is silenced

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

ncrease-the device will go back into alarm.

SILENCING THE END OF LIFE SIGNAL

ABOUT SMOKE ALARMS

SILENCING THE LOW BATTERY WARNING

AWARNING!

If the unit alrams 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/C0 alarm to stop an unwanted alarm (caused by cooking smoke, etc). 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.

RESPONDING TO AN ALARM

WHAT TO DO IN CASE OF FIRE

AWARNING!

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: 85 dB minimum at 10 feet (3 meters).

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:

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

(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

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.

(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)

CALIFORNIA STATE FIRE MARSHAL (CSFM)

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AWARNING!

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.

HUD MAP PROGRAM

FCC COMPLIANCE

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.

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 ventilated, 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

These symptoms are related to CO POISONING and should be discussed with ALL household members. Mild Exposure: 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, death.

IMPORTANT!

This CO alarm measures exposure to CO over time. It alarms if CO levels are extremely high in a 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 adulty Why is this important? Because you need to be warmed 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 not feeling well, but become disoriented and can no longer react well enough to exit the to co explosure, vicinis intra de avaie that they are not reteining web, ou decome oscinented and can no indige react where indugit to exit the building or get help. Also, young children and pets may be the first affected. The average healthy adult night not feel any symptoms when the CO alarm sounds. However, people with cardiac or respiratory problems, infants, undown 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!

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:

Clean chimneys and flues yearly, Keep them free of debris, leaves, and nests for proper air flow. Also, have a professional check for rust and corrosion, cracks, or separations. These conditions can prevent proper air movement and cause backdrafting. Never "cap" or cover a chimney in any way that would block air flow. Test and maintain all fuel-burning equipment annually. Many local gas or oil companies and HVAC companies offer appliance inspections for a nominal fee.

- Make regular visual inspections of all fuel-burning appliances. Check appliances for excessive rust and scaling. Also check the flame on the burner and pilot lights. The flame should be blue. A yellow flame means fuel is not being burned completely and CO may be present. Keep the blower door on the furnace closed. Use vents or fram when they are available on all fuel-burning appliances. Make sure appliances are vented to the outside. Do not grill or barbecue indoors, or in garages or on screen proches.
- Check for exhaust backflow from CO sources. Check the draft hood on an operating furnace for a backdraft. Look for cracks on furnace heat exchangers Check the house or garage on the other side of shared wall.
- Keep windows and doors open significantly decrease CO levels.
- In addition, familiarize yourself with all enclosed materials. Read this manual in its entirety, and make sure you understand what to do if your CO alarm sounds.

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. These 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.

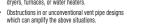
POTENTIAL SOURCES OF CO IN THE HOME

Fuel-burning appliances like: portable heater, gas or wood burning fireplace, gas kitchen range or cooktop, gas clothes dryer. 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 appliance/device: 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 outdoor conditions and other special circumstances

The following conditions can result in transient CO situations: 1. Excessive spillage or reverse venting of fuel appliances caused by outdoor conditions such as: · Wind direction and/or velocity, including high, gusty

winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles). · Negative pressure differential resulting from the use of exhaust fans Several appliances running at the same time competing for limited fresh air. Vent pipe connections vibrating loose from clothes dryers, furnaces, or water heaters.



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.

REGULATORY INFORMATION FOR SMOKE/CO ALARMS REGULATORY INFORMATION FOR SMOKE ALARMS

RECOMMENDED LOCATIONS FOR SMOKE ALARMS Installing Smoke Alarms in Single-Family Residences The National Fire Protection Association (NFPA), recommends one smoke alarm on every level, in every sleeping area, and in every bedroom. In new construction, the smoke alarms must be AC powered and interconnected. See "Agency Placement Recommendations" for details. For additional coverage, it is recommended that you install a smoke alarm in all rooms, halls, scorage areas, finished attics, and bearements, where temperatures normally remain between 40° F (4.4° C) and 100° F (37.8° C). Make sure no door or other obstruction could keep smoke from reaching the smoke alarms.

- More specifically, install smoke alarms:
- On every level of your home, including finished attics and basements. · Inside every bedroom, especially if people sleep with doors closed.
- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is over 40 feet (12 meters) long, install an alarm at each end.
- At the top of the first-to-second level stairway, and at bottom of basement stairway

IMPORTANT!

Specific requirements for smoke alarm installation vary from state to state and from region to region. Check with your local Fire Department for current requirements in your area. It is recommended AC or AC/DC units be interconnected for added protection.

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 diministration (OSHA) requirements for Carbon Monoxide alarms must be met. The smoke alarm portion of this device is not intended to alert hearin esidents. Special purpose smoke alarms should be installed for hearing impaired residents (CO alarms are not yet available for the hearing impaired ded to alert hearing impaired resources, special purpose since damins should be instanted to interning imparted resources (Lo damins are not yet variance) on the naming imparted. Smoke/CO damins may not wake and all individuals. Practice the escape plan at least twice a year, making sure that everyone is involved – from kits 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 intants or family members with mobility limitations, makes sure that someone is assigned to assist them in fire drill and in the event of a memoryency. It is ecommended that you hold fire drill while they are slopsing in order to determine their response to the sound of the smoke/CO alarm while skeeping 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 powe 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

This among the sense and the sense and the sense and the sense and teach the sense at the sense at the sense and teach the sense at the sense. Since a contract teach the sense at the sense of the sens This smoke/C0 alarm may not sense smoke or C0 on another level of the home. Example: This alarm device, installed on the second level, may not sense smoke or C0 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 C0 alarms be used in conjunction with interconnected AC powered smoke alarms. For details, see "About Smoke Alarms" for details.

and CD 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 befroom, if 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 dosed or only partly open. Even persons who are awake may not hear the alarm horn if hos sound is blocked by distance or closed doors. Noise from traffic, stereo, addio, television, ari 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, or fires caused by violent explosions resulting from escaping gas.

This smoke/C0 alarm is not a substitute for life insurance. Though this smoke/C0 alarm warns against increasing C0 levels or the presence of smoke, BRK Brands, Inc. does not warrant or imply in any way that they will protect lives. Homeowners and renters must still insure their lives. This smoke/C0 alarm has a limited life. Although this smoke/C0 alarm mand 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 is in a remote part of the home, away from the alarm device.

LIMITED WARRANTY

BRK Brands, Inc., ("BRK") the maker of 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. BRK, 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 replace this 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 transfaule. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. BRK dealers, service centers, or retail stores selling BRK 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 BRK or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, huricines and tomadoes. or an automized service center. Further, the warranty does not cover Accs or odd, such as the, nood, nurricanes and tomatoes. BRK 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 any 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 Customer Service Team at 1-800-323-9005. To assist us in serving you, please have the model number and date of purchase available when calling. For Warranty Service return to: BRK Brands, Inc., 1301 Joe Battle, El Paso, TX 79936

Disposal: Waste electrical products should not be disposed of with regular household waste. Please recycle where facilities exist. Check local requirements for disposal of Li-lon electronic devices.

The alarm should be deactivated before disposal. See, "To Permanently Deactivate the Smoke/CO alarm". You can also return your alarm to us for disposal. For return address see above. Please include a note confirming the product is being returned for disposal.

Visit www.firstalert.com for more information

For your records, pleas	e record:		
Date Purchased:			
Where Purchased:			
Date Installed:		Month/Year	
Replace alarm 10 years	after installatior		
Please write the date in	n the space provid	led:	
/	Month	Vear	

The alarm will also provide an audible Endof-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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IF YOUR SMOKE/CO ALARM SOUNDS

Type of Alarm	What You See and Hear
Carbon Monoxide (CO)	Voice: "Warning, evacuate carbon monoxide in [Location, example: "Hallway"]. Evacuate." " ppm." Horn: 4 beeps, pause, 4 beeps, voice LED: Flashes Red
Smoke	Voice: "Warning, evacuate smoke in [Location, example: "Hallway"]. Evacuate." Horn: 3 beeps, pause, 3 beeps, voice LED: Flashes Red
Smoke	

If you hear the CO alarm horn and the CO red light is flashing, move

rce of fresh air. DO NOT deac

IF THE SMOKE ALARM SOUNDS: **RESPONDING TO AN ALARM**

AWARNING! 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 and the batteries from a battery operated smoke/CO alarm to stop an unwanted alarm (caused by cooking and the batteries from a battery operated smoke/CO alarm to stop an unwanted alarm (caused by cooking and the batteries from a battery operated smoke/CO alarm to stop an unwanted alarm (caused by cooking and the batteries from a battery operated smoke/CO alarm to stop and the stop and the stop of smoke, etc.). 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.

s of smoke/CO alarms" for details IF THE CO ALARM SOUNDS

Alarms have various limitations. See "General

AWARNING!

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! IF THE CO ALARM SIGNAL SOUNDS: Press the Test/Silence buttor

2. Call your emergency services, fire department or 911. Write down the number of your local emergency service here:

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 service responder has arrived, the premises have been airdo ud., and your CO alarm remains in its normal contribution.

After following steps 1-3, if your C0 after reactivates within a 24-hour period, repeat steps 1-3 and call a qualified applance technician to investigat for sources of C0 from fuel-burning equipment and applances, and inspect for proper operation of this equipment. If produens are identified during the 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 C0 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 app

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 co (HVAC) equipment, combustion appliances and equipment, and/or gas fireplaces or other decorative combustion equipment." onditioning

AFTER AN ALARM

After the emergency responders arrive, the premises aired out, and your CO alarm remains in its normal condition, you can check what the highest carbon monoxide level sensed was:

Action:	Alarm Will Say:
Press & hold test button	"Highest carbon monoxide level was ppm. Please see manual." "To clear highest carbon monoxide level, press and hold test button now."
Press & hold test button, if you would like to clear the highest level sensed. If you would like to keep the highest level in memory, do not press anything.	"Highest carbon monoxide level cleared." alarm will say nothing.

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.

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

Never go back inside a burning building for any reason.

Contact your Fire Department for ideas on making your home safer.

USING THE SILENCE FEATURES

AWARNING!

ver deactivate the unit to quiet an unwanted alarm. Deactivating the alarm disables the unit and removes your protection 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 C0 problem or extinguish a fire. The silence feature can temporarily quiet an unwanted atarm for several minutes. You can silence this smoke/C0 atarm by pressing the Test/Silence button on the atarm cover for at least 3-5 seconds. After the Test/Silence button is released, the Red LED blinks during the silence mode.

When the smoke alarm is silenced	When the CO alarm is silenced
The endly along will appear allocations to	The CO elever will exercise silent

	15 minutes, then return to normal operation. If the smoke has not cleared-or continues to increase-the device will go back into alarm.	for up to 4 minutes. After 4 minutes, if CO levels remain potentially dangerous the horn will start sounding again.
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SILENCING THE LOW BATTERY WARNING

This silence feature can temporarily quiet the Low Battery Warning "chirp". You can silence the Low Battery Warning "chirp" by pressing the Test/ Silence button on the alarm. Once the Low Battery Warning "chirp" silence feature is activated, the unit continues to flash the Green light once at induce. After time, the low battery "chirp" will resume. Replace the alarm as soon as **possible**; this unit will onl 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. You 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.

IMPORTANT!

SYMPTOMS OF CO POISONING

WHAT YOU NEED TO KNOW ABOUT CO:

C0 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 C0.

These symptoms are related to CO POISONING and should be discussed with ALL household members.

These fuels include: Wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane.

WHAT IS CO?

This CO alarm measures exposure to CO over time. It alarms if CO levels are extremely high in a short period of time, or if CO levels reach a sertain minimum over a long period of time. The CO alarm generally sounds an alarm before the onset of symptoms in average, healthy adult 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, voltims may be aware that they are not feeling well, but become disoriented and can no longer react well enough to exit the This CO alarm me to Co exposure, vicuus may be availed totat they are not relining were, not become usoniented and can in oningen relact, were monogin to exit use building or get help. Also, young officier and pets may be the first affected. The average healthy adult might into fet any symptoms when the CO alarm sounds. However, pached with cardiac or respiratory problems, infrants, undom bables, pregnant mothers, or delaying people can how requestly and severely affected by CO. If you expensione even mid symptoms of CO poissioning, consult your doctor immediately

Extreme Exposure: Convulsions, unconsciousness, heart and lung failure. Exposure to Carbon Monoxide can cause brain damage, death

HOW CAN I PROTECT MY FAMILY FROM CO POISONING?

Mild Exposure: Slight headache, nausea, vomiting, fatigue ("flu-like" symptoms).

Medium Exposure: Throbbing headache, drowsiness, confusion, fast heart rate

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:

Clean chimneys and flues yearly, Keep them free of debris, leaves, and nests for proper air flow. Also, have a professional check for rust and corrosion, cracks, or separations. These conditions can prevent proper air movement and cause backdrafting. Never "cap" or cover a chimney in any way that would block air flow. Test and maintain all fuel-burning equipment annually. Many local gas or oil companies and HVAC companies offer appliance inspections for a nominal fee.

Common appliances are often sources of CO. If they are not properly maintained, are improperly ventilated, 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.

- Make regular visual inspections of all fuel-burning appliances. Check appliances for excessive rust and scaling. Also check the flame on the burner and oilot lights. The flame should be blue. A vellow flame means fuel is not being burned comoletely and CO may
- be present. Keep the blower door on the furnace closed. Use vents or fans when they are available on all fuel-burning appliances Make sure appliances are vented to the outside. Do not grill or barbecue indoors, or in garages or on screen porches.
- Check for exhaust backflow from CO sources. Check the draft hood on an operating furnace for a backdraft. Look for cracks on furnace heat exchangers Check the house or garage on the other side of shared wall.
- Keep windows and doors open slightly. If you suspect that CO is escaping into your home, open a window or a door. Opening windows and doors can significantly decrease CO levels.
- In addition, familiarize yourself with all enclosed materials. Read this manual in its entirety, and make sure you understand what to do if your CO alarm sounds. FINDING THE SOURCE OF CO AFTER AN ALARM

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 hearin esidents. Special purpose smoke alarms should be installed for hearing impaired residents (CO alarms are not yet available for the hearing impaired

This smoke/C0 alarm may not sense smoke or C0 on another level of the home. Example: This alarm device, installed on the second level, may not sense smoke or C0 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 C0 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,

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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 is in a remote part of the home, away from the alarm device.

This moke/C0 alarm has a limited life. Although this smoke/C0 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.

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 form traffic, stereor, adio, 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.

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 powe

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 th 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

ensor. Smoke or CO may be present in other areas. Doors or other obstructions may affect the rate at which CO or smol 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.

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, or fires caused by violent explosions resulting from escaping gas.

Testients, special purpose since damins anounce installication meaning impactor consortic (or damine do may be strained or the performance). Simoke/CO alterms may not wake and 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 all high when they are skelening. 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 fire drill will be event of an emergency.

Carbon monoxide is an odorless, invisible gas, which often makes it difficult to locate the source of CO after an alarm. These are a few of the factors that can make it difficult to locate sources of CO:

· House well ventilated before the investigator arrives.

GENERAL LIMITATIONS OF SMOKE/CO ALARMS

- 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.

Several appliances running at the same time competing for limited fresh air. Vent pipe connections vibrating loose from clothes dryers, furnaces, or water heaters. Obstructions in or unconventional vent pipe designs which can amplify the above situations.

Negative pressure differential resulting from the use of exhaust fans.

POTENTIAL SOURCES OF CO IN THE HOME

The following conditions can result in transient CO situations:

1. Excessive spillage or reverse venting of fuel appliances caused by outdoor conditions such as:

 Wind direction and/or velocity, including high, gusty winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles).



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.

Fuel-burning appliances like: portable heater, gas or wood burning fireplace, gas kitchen range or cooktop, gas clothes dryer.

Improper use of appliance/device: 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 outdoor conditions and other special circumstances

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.

REGULATORY INFORMATION FOR SMOKE/CO ALARMS REGULATORY INFORMATION FOR SMOKE ALARMS

RECOMMENDED LOCATIONS FOR SMOKE ALARMS

Installing Smoke Alarms in Single-Family Residences The National Fire Protection Association (NFPA), recommends one smoke alarm on every level, in every sleeping area, and in every bedroom. In new construction, the smoke alarms must be AC powered and interconnected. See "Agency Placement Recommendations" for details. For additional coverage, it is recommended that you install a smoke alarm in all rooms, halls, scorage areas, finished attics, and bearements, where temperatures normally remain between 40° F (4.4° C) and 100° F (37.8° C). Make sure no door or other obstruction could keep smoke from reaching the smoke alarms. More specifically, install smoke alarms:

HOW TO OBTAIN WARRANTY SERVICE

Visit www.firstalert.com for more information

For your records, please record:

Replace alarm 10 years after installation

Please write the date in the space provided

Date Purchased

Date Installed:

Where Purchased:

- · On every level of your home, including finished attics and basements.
- · Inside every bedroom, especially if people sleep with doors closed.
- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is over 40 feet (12 meters) long, install an alarm at each end.
- · At the top of the first-to-second level stairway, and at bottom of basement stairway.

IMPORTANT!

earing impaired

Specific requirements for smoke alarm installation vary from state to state and from region to region. Check with your local Fire Department for current requirements in your area. It is recommended AC or AC/DC units be interconnected for added protection.

LIMITED WARRANTY

BRK Brands, Inc., ("BRK") the maker of 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. BRK, 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 replace this 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 transfaule. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. BRK dealers, service centers, or retail stores selling BRK 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 aryone other than BRK or an authorized service center. Further, the warrant does not cover Acts of God, such as fire, flood, huricines and tomadoes.

We an automate service center. In their, the war any does not core PALS to doo, sound as the moot, numbaries and unhances. BRK 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 any 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.

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

You can also return your alarm to us for disposal. For return address see above. Please include a note confirming the product is being returned for disposal.

The alarm will also provide an audible End-

The End-of-Life Signal can be silenced for up to 2 days. Do not unplug or deactivate

the alarm until you get repla

of-Life Signal approximately 10 years after installation to remind you to replace the unit.

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For Warranty Service return to: BRK Brands, Inc., 1301 Joe Battle, El Paso, TX 79936

Disposal: Waste electrical products should not be disposed of with regular household waste. Please recycle where facilities exist. Check local requirements for disposal of Li-Ion electronic devices.

Month/Year

The alarm should be deactivated before disposal. See, "To Permanently Deactivate the Smoke/CO alarm".

REGULATORY INFORMATION FOR CO ALARMS

WHAT LEVELS OF CO CAUSE AN ALARM?

Inderwriters 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 o 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: 85 dB minimum at 10 feet (3 meters)

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:"

29.5.1.1* 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 base
- (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)
- (Reprinted with permission from NFPA 72^a, National Fire Alarm and Signaling Code Copyright © 2010 National Fire Protection Association, Ouincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirely), (National Fire Alarm and Signaling Code^a and NFPA 72^a are registered trademarks of the National Fire Protection Association, Linc, Juincy, MA 02269).

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.

ABOUT SMOKE ALARMS

Battery (DC) operated smoke alarms: Provide protection even when electricity fails, provided the batteries are fresh and correctly installed. Units are easy to install, and do not require professional installation.

AC powered smoke alarms: Can be interconnected so if one unit senses smoke, all units alarm. They do not operate if electricity fails. AC with battery (DC) back-up: will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician Smoke/CO alarms for solar or wind energy users and battery backup power systems: AC powered smoke/CO alarms should only be operated with true or pure sine wave inverters. Operating this alarm with most battery-powered UPS (uninterruptible power supply) products or square wave or "quasi sine wave" inverters will damage the laarm. If you are not sure about your inverter or UPS type, please consult with the manufacture to verify.

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. 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 these smoke alarms are designed to provide early warning of fires if located, installed and cared for a described in the user's manual, and if smoke reaches the alarm. If you are unsure which type of unit to install, refer to National Fire Protection Association, NIPA 72 (National Fire Atam and Signaling) code) and NFPA 101 (Life Safety Code), National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. Local building codes may also require specific units in new construction or in different areas of the home.

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 domitories 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 any ont 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 tacilities, or group homes of any kind. It is not a suitable substitute for complete fire detection systems in warehouses, filositrial 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 to use up proved countrollar protection III differ Idaliti 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. Refer to HPA72 1 (different alfire Alarm and Signaling Code) and HPA 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 SA340 FCC COMPLIANCE

his 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 guarantes that the interferences will not acccur 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.

AWARNING!

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.