
S.O.P. #: 400-33

SUBJECT: Residential Fire and Life Safety Education Program

DIVISION: Emergency Operations

Objective: To provide life safety and property conservation information to Baltimore County residents through public education, home safety evaluation, and the installation of combination smoke and carbon monoxide (CO) alarms.

A. Weekly Neighborhood Canvassing

a. Notification:

- i. Chief Officers, Station Officers, the Public Information Officer (PIO), and the on-call PIO will be notified by email of the date, time, and location of weekly canvassing efforts.
- ii. When canvassing is scheduled in a volunteer district, the Chief Officer will notify the BCVFA Vice President of Operations, and invite the impacted volunteer company to participate.
- iii. If applicable, the Station Officer will contact the neighborhood representative/community association prior to the event.
- iv. The Station Officer will request, through Logistics, the appropriate amount of alarms and literature to meet the needs of the upcoming event.
- v. The PIO will make additional notifications as appropriate.
- vi. Weekly neighborhood canvases will occur on Saturday mornings, unless otherwise directed. Station Officers should work with identified leaders within communities to schedule events at the most appropriate time.
- vii. Station Officers are encouraged to be proactive in identifying neighborhoods within their districts that would benefit from a canvassing event and notify fireinfo@baltimorecountymd.gov.
- viii. All community Public Fire Safety Events should include information about the Home Fire Safety project.

b. Neighborhood Canvassing:

- i. Crews will arrive 15 minutes prior to the event. Apparatus will be parked in a conspicuous location away from traffic.
- ii. Crews will work in a minimum of PAIRS.
- iii. Crews will knock on all doors within the identified neighborhood.
- iv. Crews will introduce themselves as follows:
 1. As a member of the Baltimore County Fire Department.

2. State their name and duty assignment.
 3. Identify the program name (Residential Fire and Life Safety Education).
- v. Permission
1. Personnel should ensure an adult is home and gain permission prior to entering a residence.
 2. Personnel should have resident:
 - a. Sign waiver and explain the program in detail prior to starting the walk through (see, Appendix A).
 - b. If no one is home, or an adult resident is not present, leave a door hanger.
- vi. Home inspection
1. Follow the Home Safety Survey Checklist (see, Appendix B).
 2. Homeowner/resident must escort Fire Department members at all times while in home.
 - a. Homeowner/resident should open all doors to ensure permission to enter.
 - b. Homeowner/resident may elect to only make a portion of the home available for inspection.
 - c. Leave the completed safety check list with the resident.
 3. Check Alarms
 - a. Presence – smoke and/or carbon monoxide.
 - b. Age of the alarms.
 - c. Test alarms.
 4. Replacement Alarm
 - a. Crews will only replace or install one alarm per residence.
 - b. Identify most appropriate space. This should be adjacent to the majority of the sleeping quarters in the home.
 - c. Crews shall wear eye protection and safety gloves.
 - d. Remove alarm from the package while in the resident's home.
 - e. Explain usage and testing of alarm and be prepared to answer any questions. (Refer to information sheet if necessary, see Appendix C.) Follow installation instructions.
 - f. Clearly explain to resident - crews are only installing one (1) alarm at this time and this does not meet recommendations for number of smoke alarms in a home. Explain the recommendations.
 - g. For rental properties, explain to resident - it is the responsibility of the property manager/owner to meet the standard outlined above.

- h. Keep all installation and use instructions included in alarm packaging and leave with the resident.
 - i. Test alarm after installation (alarm will not function until activated by mounting disk).
 - j. Clean and remove any debris caused by the new alarm installation from the home. Do not leave trash in the residence.
5. If, through the course of a home inspection, crews identify issues relating to at risk members of the community, they shall use the community card (see, Appendix D) to contact the appropriate agency. This may include, but is not be limited to:
- a. Suspected child abuse/neglect.
 - b. Suspected elder abuse/ neglect.
 - c. Homes in frank disrepair.
 - d. Animal, rodent, or insect infestation.
 - e. Suspected malnutrition.
- **When in doubt contact your Chief Officer, EMS District Officer and/or police.
- vii. If no one is home, leave door hanger.
 - viii. Upon completion of the canvas event, forward the canvassing tracking form and signed waivers, with legible street address of resident, to Headquarters, attention: Life Safety Program.
 - ix. Excess alarms and literature shall be returned to Logistics.

B. While on the Scene of a Call

- a. While responding to any emergency in Baltimore County, all members should be cognizant of the conditions of the homes we are invited to enter. When any member of a crew identifies a home that may benefit from a Home Safety Inspection, the following procedure should occur:
 - i. Tend to original emergency.
 - ii. Ensure that one adult resident is present.
 - iii. Offer Home Safety Inspection.
 - iv. Follow inspection procedures above.
 - v. If inappropriate to conduct inspection due to present emergency:
 - 1. Offer door hanger with information on scheduling.
 - 2. Make arrangement to return to residence at the conclusion of the emergency.

C. Constituent Request

- a. Requests will be forwarded to the appropriate station officers working Day work within 48 hours (excluding weekends and holidays).
- b. Station officers will contact the requesting citizen within 24 hours of receiving a request.
- c. If unable to contact the requesting resident:
 - i. A message will be left on voicemail.

- ii. If at the resident's request, email communication is appropriate.
- iii. If the station officers are unable to contact the resident after three attempts, an email will be sent to fireinfo@baltimorecountymd.gov. Email will include the time and date of each attempt to contact and the number/email used.

D. Special Needs

- a. Alarms for the Hearing Impaired
 - i. If any resident is in need of a hearing impaired smoke alarm, contact fireinfo@baltimorecountymd.gov and one will be delivered to the station via interoffice mail.
- b. Non-English speaking.
 - i. All fire safety materials will be available in English and Spanish. If crews encounter specific language needs, contact fireinfo@baltimorecountymd.gov to arrange to have materials printed in the appropriate form.

E. Data Collection.

- a. Upon completion of any Home Safety Inspection, forward the canvassing tracking form and signed waivers to Headquarters, attention: Life Safety Program.

F. Equipment/materials.

- a. The following equipment will be permanently placed on all suppression apparatus in a clean and dry space:
 - i. 2 - Back packs
 - ii. 1 - Step stool
 - iii. 2 - Cordless drills w/ spare batteries (one per backpack)
 - iv. 1 - Battery charger (to be placed in the station)
- b. The following material will be kept in each backpack on the apparatus:
 - i. 1 - File folder NFPA Home Safety inspection checklists.
 - ii. 1 - File folder -Smoke alarm installation waivers.
 - iii. 1 - File folder -Seasonal Fire/life safety literature.
 - iv. 6 - Approved combination smoke and carbon monoxide alarms.
- c. Procurement.
 - i. All hardware and materials will be ordered using the existing Form 133.



Home Fire Safety Alarm Education Program Waiver

Recognizing the importance of working smoke alarms in every home, the Baltimore County Fire Department (“Department”) Smoke and Carbon Monoxide (CO) Alarm Education Program (“Program”) endeavors to educate residents on the importance of home fire safety, smoke, and CO alarm installation in residences throughout Baltimore County.

I, _____, hereby agree to have Fire Department representatives install ONE combination smoke and CO alarm in my home located at:

(Please print.)

In consideration for the Program voluntarily providing and installing ten (10) year sealed battery-powered smoke and CO alarm(s) in my home, without charge, I hereby waive any actions or claims against any and all individual or organizational participants in the above referenced program, including but not limited to the Department, Baltimore County Government and its officers, agents, employees and volunteers, in connection with this undertaking, including claims arising from the installation, or failure, of the smoke and CO alarm, or battery, in my home.

I further agree to indemnify, defend, and hold harmless Baltimore County, officers, agents, employees, and volunteers from any and all third party claims, liabilities, costs, and expenses, including reasonable attorneys' fees, arising out of or resulting from the installation, or failure, of such smoke and CO alarm, or battery, in my home.

By signing this document:

I _____ acknowledge that the smoke alarms were tested in my presence and are in good working order;

I _____ acknowledge that I have received information from the installer regarding proper smoke alarm maintenance;

Appendix A

I _____ acknowledge that I am responsible for the maintenance of the alarm;

I _____ acknowledge that I have been advised that the installation of a single smoke and CO detector will likely not satisfy residential fire safety laws, or the recommendations of fire safety organizations;

I _____ acknowledge that I have been provided references for sources of more information about residential fire safety laws and the recommendations of fire safety organizations.

I acknowledge having read, understood, and agree to the above.

Printed Name

Signature

Date



Home Safety Survey Checklist

LOCATION INFORMATION

Occupant: _____ Date: _____
 Address: _____ Unit/Shift: _____
 _____ Inspector: _____

TYPE OF OCCUPANCY

- Single Family Dwelling (unattached) Single Family Dwelling (attached)
 Multi- Family (Apartment or Condominium)

HOME ESCAPE PLAN - EDITH (Exit Drill in the Home)

- Review key points. Know where to meet after the escape.
 Have two ways out of each room Meeting place should be near the front of your home, so firefighters know you are out.
 Know to crawl low to the floor when escaping to avoid toxic smoke. Practice your fire escape plan
 Know that once you're out, stay out.

ELECTRICAL AND APPLIANCE SAFETY

- Electrical cords do not run under rugs. Large and small appliances are plugged directly into wall outlets.
 Electrical cords are not frayed or cracked. Extension cords are never used with space heaters.
 Circuit-protected, multi-prong adapters are used for additional outlets. Clothes dryer lint filter and venting system are clean.

SMOKE ALARMS

- There is one smoke alarm on every level of the home and inside and each sleeping area. smoke alarms are compliant with 2018 law
 Smoke alarms are tested and cleaned monthly. Smoke alarms are less than 10 years old.

GENERAL SAFETY

- The space around the furnace and water heater clear of combustible material and clutter
 Clutter is minimal in all areas of the home
 Furniture and other items that can catch fire are at least 3 feet from fireplaces, wall heaters, baseboards, and space heaters.

COOKING SAFETY

- Cooking area is free from items that can catch fire.
 Kitchen stove hood is clean and vented to the outside.
 Pots are not left unattended on the stove.
 Electrical cords are not used for large or small appliances in the kitchen.

Signature of Occupant _____ Signature of Inspector _____

P3010K-CO
Combination Photoelectric
Smoke and Carbon Monoxide Alarm

Combo Smoke/CO Alarm User's Guide

Thank you for purchasing this Kidde Combination Smoke/CO Alarm. This model is battery operated and features a non-replaceable, sealed-in battery and SMART HUSH™ Control to temporarily silence nuisance alarms.

Important: Please take a few minutes to thoroughly read this user's guide which should be saved for future reference and passed on to any subsequent owner.

Teach children how to respond to the alarm and that they should never play with the unit.

This Kidde Smoke/CO Alarm was designed to detect both smoke and carbon monoxide from any source of combustion in a residential environment. It is not designed for use in a recreational vehicle (RV) or boat.

For questions concerning this alarm please call Product Support at 1-800-880-6788.

For your convenience, write down the following information. If you call Product Support, these are the first questions you will be asked.

Smoke Alarm Model Number: <small>(located on back of alarm)</small>	
Date Code: <small>(located on back of alarm)</small> The National Fire Protection Association (NFPA) and the manufacturer recommend replacing this alarm ten years from the date code.	
Date of Purchase:	
Where Purchased:	



P/N: 2534-7201 RevA

WHAT TO DO WHEN THE ALARM SOUNDS SMOKE ALARM ACTIVATION

Smoke alarm pattern is three long beeps repeating every 1.5 seconds.

The smoke alarm takes precedence when both smoke and carbon monoxide are present.

- Alert small children in the home as well as anyone else that might have difficulty recognizing the importance of the alarm sounding or that might have difficulty leaving the area without help.
- Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.
- In leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through cracks, don't open that door! Instead, use your alternate exit. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
- Stay close to the floor if the air is smoky. Breathe shallowly through a cloth, wet if possible.
- Once outside, go to your selected meeting place and make sure everyone is there.
- Call the fire department from your neighbor's home - not from yours!
- Don't return to your home until the fire officials say that it is all right to do so.
- There are situations where a smoke alarm may not be effective to protect against fire as stated in the NFPA Standard 72. For instance:
 - a) smoking in bed
 - b) leaving children home alone
 - c) cleaning with flammable liquids, such as gasoline
- If the escape route requires you to go through smoke, crawl low under the smoke where the air is clearer.

WHAT TO DO WHEN THE ALARM SOUNDS CO ALARM ACTIVATION

Carbon monoxide (CO) alarm pattern is four quick beeps repeating every 5 seconds.

▲ WARNING: Carbon monoxide alarm activation indicates the presence of Carbon Monoxide (CO) at high concentrations which can kill you.

- 1) Operate the Test/Hush button;
 - 2) Call your emergency services (Fire Department or 911).
 - 3) Immediately move to fresh air - outdoors or by an open door/window. Do a head count to check that all persons are accounted for. Do not reenter the premises nor move away from the open door/window until the emergency services responders have arrived, the premises have been aired out, and your alarm remains in its normal condition.
 - 4) After following steps 1-3, if the alarm reactivates within a 24 hour period, repeat steps 1-3 and call a qualified appliance technician to investigate sources of CO from fuel burning equipment and appliances, and to inspect for proper operation of equipment.
- If problems are identified during this inspection, have the equipment serviced immediately. Note any combustion equipment not inspected by the technician and consult the manufacturer's instructions, or contact the manufacturer directly for more information about CO safety and the equipment. Make sure that motor vehicles are not, or have not been, operating in a garage attached or adjacent to the residence.
- Never restart the source of a CO problem until it has been corrected. Never ignore the sound of the alarm!
- If the unit is sounding, pressing the Test/Hush button will terminate the notification. If the CO condition that caused the alarm in the first place continues, the unit will reactivate in alarm mode. If the unit goes into alarm mode again within six minutes, it is sensing high levels of CO which can quickly become a dangerous situation.**

CONTENTS OF THIS USER'S GUIDE

- 1 — LIMITATIONS OF SMOKE AND CARBON MONOXIDE ALARMS
- 2 — RECOMMENDED LOCATIONS FOR ALARMS
- 3 — LOCATIONS TO AVOID
- 4 — INSTALLATION / MOUNTING INSTRUCTIONS
- 5 — OPERATION AND TESTING
- 6 — VISUAL AND AUDIBLE INDICATIONS
- 7 — NUISANCE AND HUSH
- 8 — BATTERY
- 9 — DEACTIVATION OF ALARM
- 10 — CLEANING
- 11 — GENERAL CARBON MONOXIDE (CO) INFORMATION
- 12 — GOOD SAFETY HABITS
- 13 — SERVICE AND WARRANTY

This alarm detects products of combustion using photoelectric technology and carbon monoxide using an electrochemical cell. Many times throughout this User's Guide, we will refer to Carbon Monoxide as "CO."

This alarm is acceptable for use near kitchens or cooking areas but can be used in all other residential applications where a smoke or CO alarm is required.

After ten (10) years of cumulative power up, this unit will "chirp" two times every 30 seconds. This is an "operational end of life" feature which will indicate that it is time to replace the alarm.

To help identify the date to replace the unit, a label has been affixed to the side of the alarm. Write the "replace by" date (10 years from initial power up) in permanent marker on the label prior to installing the unit.

Product Features and Specifications:

- Temperature: Operating Range: 40°F (4.4°C) to 100°F (37.8°C)
- Humidity: Operating range: 10-85% non-condensing
- Audible Alarm: 85+ dB at 10' @ 3.4±0.5 KHz pulsing alarm
- Smoke Sensor: Photoelectric
- CO Sensor: Electrochemical

Two labels have been provided that have important information on what to do in case of a CO alarm. Place one label next to the alarm after it is mounted, and one near a fresh air source such as a door or window.

1. LIMITATIONS OF SMOKE ALARMS

▲ WARNING: PLEASE READ CAREFULLY AND THOROUGHLY

- NFPA 72 states: Life safety from fire in residential occupancies is based primarily on early notification to occupants of the need to escape, followed by the appropriate egress actions by those occupants.
- Fire warning systems for dwelling units are capable of protecting about half of the occupants in potentially fatal fires. Victims are often intimate with the fire, too old or young, or physically or mentally impaired such that they cannot escape even when warned early enough that escape should be possible. For these people, other strategies such as protection-in-place or assisted escape or rescue are necessary.
- Smoke alarms are devices that can provide early warning of possible fires at a reasonable cost; however, alarms have sensing limitations. Ionization sensing alarms may detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms. Photoelectric sensing alarms may detect visible fire particles (associated with slow smoldering fires) sooner than ionization alarms. Home fires develop in different ways and are often unpredictable. For maximum protection, Kidde recommends that both ionization and Photoelectric alarms be installed.
- A battery powered alarm must have a battery of the specified type, in good condition and installed properly.
- Smoke alarms must be tested regularly to make sure the battery and the alarm circuits are in good operating condition.
- Smoke alarms cannot provide an alarm if smoke does not reach the alarm. Therefore, smoke alarms may not sense fires starting in chimneys, walls, on roofs, on the other side of a closed door or on a different floor.
- If the alarm is located outside the bedroom or on a different floor, it may not wake up a sound sleeper.
- The use of alcohol or drugs may also impair one's ability to hear the smoke alarm. For maximum protection, a smoke alarm should be installed in each sleeping area on every level of a home.

This alarm is not intended to alert hearing impaired individuals.

1. LIMITATIONS OF CARBON MONOXIDE ALARMS

▲ WARNING: PLEASE READ CAREFULLY AND THOROUGHLY

• **IMPORTANT:** This carbon monoxide alarm is designed to detect carbon monoxide gas from ANY source of combustion. It is NOT designed to detect any other gas.

• **CAUTION:** This alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas. Never restart the source of a CO problem until it has been fixed. **NEVER IGNORE THE ALARM!**

• **▲ WARNING:** This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure compliance with Occupational Safety and Health Administration (OSHA), commercial or industrial standards. It is not suitable for installation in hazardous locations as defined in the National Electric Code. It is not designed for use in a recreational vehicle (RV) or boat.

• The installation of this device should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances, including appropriate ventilation and exhaust systems.

• This alarm does not prevent CO from occurring, nor can it solve any existing CO problem.

• **▲ WARNING:** This device is designed to protect individuals from acute effects of carbon monoxide exposure. It may not fully safeguard individuals with specific medical conditions. If in doubt, consult a medical practitioner. Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 PPM.

• This alarm has not been investigated for carbon monoxide detection below 70 PPM.

• This carbon monoxide alarm requires a continuous supply of electrical power – it will not work without power.

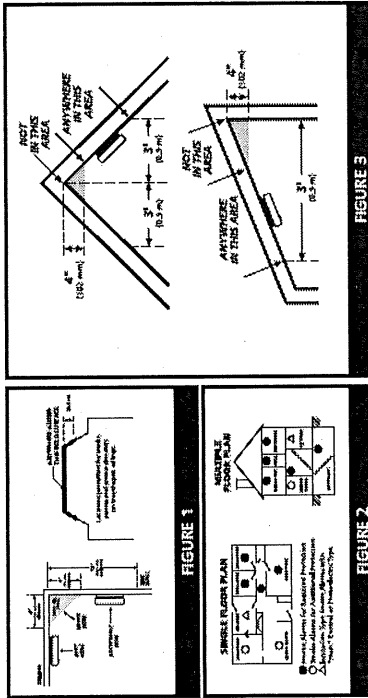


FIGURE 1
FIGURE 2
FIGURE 3

2. RECOMMENDED LOCATIONS FOR ALARMS

- Locate the smoke alarms in all sleeping areas. Try to monitor the exit path as the bedrooms are usually farthest from the exit. If more than one sleeping area exists, locate additional alarms in each sleeping area.
- Locate additional alarms to monitor any stairway as stairways act like chimneys for smoke and heat.
- Locate at least one alarm on every floor level.
- Locate an alarm in every bedroom.
- Locate an alarm in every room where electrical appliances are operated (i.e. portable heaters or humidifiers).
- Locate an alarm in every room where someone sleeps with the door closed. The closed door may prevent an alarm not located in that room from waking the sleeper.
- Smoke, heat, and combustion products rise to the ceiling and spread horizontally. Mounting the smoke alarm on the ceiling in the center of the room places it closest to all points in the room. Ceiling mounting is preferred in ordinary residential construction.
- For mobile home installation, select locations carefully to avoid thermal

barriers that may form at the ceiling. For more details, see MOBILE HOME INSTALLATION section.

- When mounting an alarm on the ceiling, locate it at a minimum of 4" (10 cm) from the side wall.
- When mounting the alarm on the wall, use an inside wall with the top edge of the alarm at a minimum of 4" (10 cm) and a maximum of 12" (30.5 cm) below the ceiling.
- Put smoke alarms at both ends of a bedroom hallway or large room if the hallway or room is more than 30 feet (9.1 m) long.
- Install Smoke Alarms on sloped, peaked or cathedral ceilings at or within 3ft (0.9m) of the highest point (measured horizontally).

This equipment should be installed in accordance with the National Fire Protection Association's 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269).

3. LOCATIONS TO AVOID

- In the garage. Products of combustion are present when you start your automobile.
- Normal cooking may cause nuisance alarms. If a kitchen alarm is desired, it should have an alarm silence feature or be a photoelectric type.
- Do not install within 6 ft. of heating or cooking appliances.
- Less than 4" (10cm) from the peak of an "A" frame type ceiling.
- In an area where the temperature may fall below 40°F or rise above 100°F, such as garages and unfinished attics.
- In dusty areas. Dust particles may cause nuisance alarm or failure to alarm.
- In very humid areas. Moisture or steam can cause nuisance alarms.
- In insect-infested areas.
- Smoke alarms should not be installed within 3 ft (.9m) of the door to a bathroom containing a tub or shower, forced air supply ducts used for heating or cooling, ceiling or whole house ventilating fans, or other high air flow areas.
- Near fluorescent lights. Electronic "noise" may cause nuisance alarms.
- Smoke alarms are not to be used with detector guards unless the combination (alarm and guard) has been evaluated and found suitable for that purpose.
- Do not install near vents, flues, chimneys or any forced/unforced air

ventilation openings

- Do not install near fans, doors, windows or areas directly exposed to the weather.

MOBILE HOME INSTALLATION

Modern mobile homes have been designed and built to be energy efficient. Install smoke alarms as recommended above. In older mobile homes that are not well insulated compared to present standards, extreme heat or cold can be transferred from the outside to the inside through poorly insulated walls and roof. This may create a thermal barrier which can prevent the smoke from reaching an alarm mounted on the ceiling. In such units, install the smoke alarm on an inside wall with the top edge of the alarm a minimum of 4" (10 cm) and a maximum of 12" (30.5 cm) below the ceiling.

If you are not sure about the insulation in your mobile home, or if you notice that the outer walls and ceiling are either hot or cold compared to the room air temperature, install the alarm on an inside wall. NFPA 72 (National Fire Protection Association) requires smoke alarms be installed in each sleeping area.

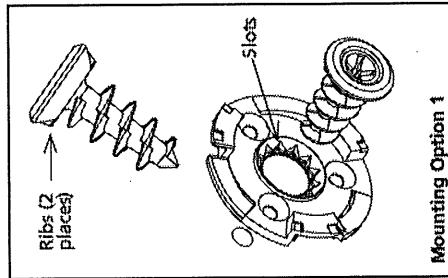
▲ WARNING: Test your smoke/CO alarm operation after mobile home has been in storage or unoccupied and at least once a week during use.

4. INSTALLATION INSTRUCTIONS

ATTACHING MOUNTING PLATE

OPTION 1: Easy Mount – Drywall Only

1. Choose a mounting location (wall or ceiling) and drill a 3/16" diameter hole at least 1/2" deep.
2. Insert the provided screw through the mounting plate aligning the ribs on the screw with the slots on the mounting plate.
3. Tighten the screw/mounting plate to wall or ceiling until mounting plate is snug against surface. DO NOT over-tighten.

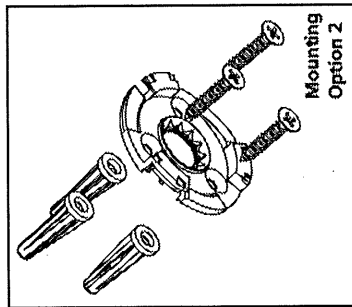


Mounting Option 1

OPTION 2:

Mounting on Other Surfaces

1. Choose a mounting location (wall or ceiling) and using the mounting plate provided as a template, mark three-hole locations.
2. Install the three provided screws through the mounting plate and tighten. DO NOT over-tighten screws. (If mounting in plasterboard or similar surface, drill 3/16" holes and use the plastic anchors provided.) Anchors are not required for mounting on hard surfaces such as wood.



ATTACHING AND ACTIVATING THE ALARM

This model is equipped with a feature that automatically activates the alarm when the alarm is attached to the mounting plate for the first time. Once activated, the battery will supply power to the alarm for the life of the alarm (10 years) under normal conditions.

Align the alarm with the mounting plate and rotate clockwise (right) approximately 45° until the unit stops and clicks into place. DO NOT over-tighten. If unit needs to be re-aligned, rotate the alarm counter clockwise, remove and rotate to desired alignment. NOTE: The alarm will mount to the plate in three (3) positions (every 120 degrees).

You will know power has been supplied when alarm briefly chirps. Unit will remain on until unit is disabled by the user at alarm's end of life. Do not over-tighten the alarm as damage to alarm or mounting surface may occur.

The alarm is now activated! After installation/activation, test your alarm as described in Operation and Testing section.

Warning: Failure to properly install and activate this alarm will prevent proper operation of this alarm and will prevent its response to fire hazards.

5. OPERATION AND TESTING

OPERATION: The alarm is operating once it is activated and testing is complete. When products of combustion are sensed, or CO is detected the unit sounds a loud 85db pulsating alarm until the air is cleared.

The carbon monoxide (CO) alarm monitors the air for the presence of CO. It will alarm when there are high levels of CO present, and when there are low levels of CO present over a longer period of time. When a CO condition matches either of these situations, the alarm will sound, and be accompanied by the blinking red LED light.

The CO sensor meets the alarm response time as follows:

- At 70 PPM, the unit must alarm within 60-240 minutes.
- At 150 PPM, the unit must alarm within 10-50 minutes.
- At 400 PPM, the unit must alarm within 4-15 minutes.

TESTING: Test your alarm by pressing the test button until the unit chirps, then release the test button. The unit will then emit 2 sets of three slow beeps followed by 2 sets of four quick beeps indicating that the alarm is operating normally. The alarm will sound if the electronic circuitry, horn, and battery are working. If the alarm does not sound, the unit must be replaced.

Warning: Due to the loudness (85 decibels) of the alarm, always stand an arm's length (about 2.5 feet) away from the unit or use ear protection when testing.

Weekly testing is required to ensure proper operation. Erratic or low volume sound (or no sound) coming from your alarm may indicate a defective alarm and it should be returned for service. See deactivation section to determine how to prepare the unit for shipment or disposal.

Warning: DO NOT use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure fire.

The following table describes the visual and audible alarm conditions the unit may encounter and illustrates how the unit will indicate normal standby, alarm and error conditions.

present, check to see if one of the reasons listed in "Locations to avoid" may have caused the alarm.

SMART HUSH™ CONTROL: The SMART HUSH™ control that is extremely useful in a kitchen area or other area prone to nuisance alarms. The SMART HUSH™ feature has the capability of temporarily desensitizing the alarm circuit for approximately 10 minutes.

This feature is to be used only when a known alarm condition, such as smoke from cooking, activates the alarm. The smoke alarm is desensitized by pushing the Test/Hush button on the smoke alarm cover. If the smoke is not too dense, the alarm will silence immediately and the red LED blinks every 10 seconds. This indicates that the alarm is in a temporarily desensitized condition.

The smoke alarm will automatically reset after approximately 10 minutes and sound the alarm if particles of combustion are still present.

The SMART HUSH™ feature can be used repeatedly until the air has been cleared of the condition causing the alarm. Pushing the Test/Hush button on the alarm will end the temporarily desensitized period.

If the smoke is not too dense, after ten minutes the alarm will return to normal operation.

NOTE: Dense smoke will override the SMART HUSH™ feature and sound a continuous alarm.

CAUTION: Before using the alarm SMART HUSH™ feature, identify the source of the smoke and be certain safe conditions exist.

8. BATTERY

BATTERY ACTIVATION AND DEACTIVATION

NOTE: One Lithium-Ion battery, permanently sealed inside the alarm, powers this unit; no battery installation or replacement is necessary for the life of the alarm.

IMPORTANT: Constant exposure to high or low humidity may reduce battery life.

⚠ WARNING! DO NOT ATTEMPT TO OPEN THE ALARM FOR ANY REASON!

Do not try to repair the smoke alarm yourself. No serviceable parts included.

Low battery: This alarm is equipped with a low battery monitor circuit which will cause the alarm to produce a single "chirp" approximately every 60 seconds and blink the Red LED every 30 seconds, for a minimum of seven (7) days should the battery become low.

6. Alarm Visual and Audible Indicators

Alarm Mode	Visual Indications	Audible Indications
Smoke or Fire detected	3 blinks synchronized with audible alarm	3 long beeps, repeating
Carbon Monoxide detected	4 blinks synchronized with audible alarm	4 quick beeps, repeating

Operational Mode	Visual Indications	Audible Indications	Notes:
Normal Operation	Blink once every 60 seconds	None	LED will flash every 60 seconds for 10 minutes following power on or reset. After initial 10 minutes, LED will flash once every 10 minutes
Test/Hush Button Press	Blink with each alarm pattern	Two sets of 3 long beeps	Test/Hush button press will initiate test sequence
Smoke or CO Alarm Hush	Blink once every 10 seconds	None (smoke alarm silenced)	Alarm hush feature silences smoke alarm for approx. 10 minutes.
Low Battery	Blink once every 30 seconds	Chirp every 30 seconds	Replace alarm
Fault Mode	Fault code (7-12 flashes every 30 seconds)	Chirp every 30 seconds	Replace alarm
End of Unit Life*	7 blinks every 30 seconds	2 chirps every 30 seconds	Remove alarm, disable, replace
End of Unit Life Hush	None	None (End of Life chirps silenced)	

* End of life hush feature. Silences end of life indication 3 days at a time for a maximum of 30 days.

If you require further information please contact

Product Support at 1-866-866-6788 or write us at Kidde, 1016 Corporate Park Drive, Mebane, NC 27302. Our internet address is www.kidde.com.

7. NUISANCE ALARMS

This Smoke alarm is designed to minimize nuisance alarms. Cigarette smoke will not normally cause the unit to alarm, unless the smoke is blown directly into the alarm. Combustion particles from cooking may set off the alarm if it is located too close to a cooking appliance. Large quantities of combustible particles are generated from spills or when broiling. Using the fan on a range hood which vents to the outside (non-recirculating type) will also help remove these combustible products from the kitchen.

If the alarm does sound the smoke alarm pattern of 3 long beeps, check for fires first. If a fire is discovered, get out and call the fire department. If no fire is

10. GENERAL CARBON MONOXIDE (CO) INFORMATION

Carbon monoxide (CO) is a colorless, odorless, and tasteless poison gas that can be fatal when inhaled. CO inhibits the blood's capacity to carry oxygen.

POSSIBLE SOURCES OF CARBON MONOXIDE

Inside your home, appliances used for heating and cooking are the most likely sources of CO. Vehicles running in attached garages can also produce dangerous levels of CO.

CO can be produced when burning any fossil fuel: gasoline, propane, natural gas, oil and wood. It can be produced by any fuel-burning appliance that is malfunctioning, improperly installed, or not ventilated correctly, such as:

Possible sources include furnaces, gas ranges/stoves, gas clothes dryers, water heaters, portable fuel burning space heaters, fireplaces, wood-burning stoves and certain swimming pool heaters. Blocked chimneys or flues, back drafting and changes in air pressure, corroded or disconnected vent pipes, or a loose or cracked furnace exchanger can also release CO into your building. Vehicles and other combustion engines running in an attached garage and using a charcoal/gas grill or hibachi in an enclosed area are all possible sources of CO.

The following conditions can result in transient CO situations:

Excessive spillage or reverse venting of fuel-burning appliances caused by outdoor ambient conditions such as wind direction and/or velocity, including high gusts of wind, heavy air in the vent pipes (cold/humid air with extended periods between cycles), negative pressure differential resulting from the use of exhaust fans, simultaneous operation of several fuel-burning appliances competing for limited internal 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, extended operation of unvented fuel-burning devices (range, oven, fireplace, etc.), temperature inversions which can trap exhaust gasses near the ground, car idling in an open or closed attached garage, or near a home.

CO SAFETY TIPS

Every year, have the heating system, vents, chimney and flue inspected and cleaned by a qualified technician. Always install appliances according to manufacturer's instructions and adhere to local building codes. Most appliances should be installed by professionals and inspected after installation. Regularly examine vents and chimneys for improper connections, visible rust, or stains, and check for cracks in furnace heat exchangers. Verify that the color of flame is blue on pilot lights and burners. A yellow or orange flame is a sign that the fuel

THE UNIT MUST BE DEACTIVATED (see "Deactivation of Alarm" section) and replaced within 7 days of the first occurrence of the "Low Battery Warning" to provide continuous alarm protection.


9. DEACTIVATION OF ALARM

▲ WARNING!

- Deactivation of the alarm is permanent. Once the alarm has been deactivated, it cannot be reactivated!
- Once deactivated, the alarm will NO LONGER DETECT SMOKE.
- Once the alarm is deactivated the battery will be depleted and the alarm will no longer function.
- Once the alarm has been deactivated, it cannot be mounted onto the mounting plate or reactivated.

TO DEACTIVATE THE ALARM:

Remove the alarm from the mounting plate by rotating it in the direction indicated by the arrows on the cover of the alarm.

On back side of alarm, locate the  area on product label.

Break through label with a screw driver.

Turn the screw to the "OFF" location.

This will deactivate the alarm, stop the low battery "chirp" and render the alarm safe for disposal by draining the battery.

▲ WARNING! Failure to turn off alarm as instructed prior to disposal may create potential for lithium battery related fire or hazard.

After cleaning, test your alarm by using the test button. If cleaning does not restore the alarm to normal operation, the alarm should be replaced.

- Never use detergent or other solvents to clean the unit.
- Avoid spraying air freshener, hair spray, or other aerosols near the alarm.
- Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect smoke and CO.
- Never attempt to disassemble the unit or clean inside. This action will void your warranty.

The following substances can affect the CO sensor and may cause false readings and damage to the sensor: Methane, propane, isobutane, iso-propanol, ethyl acetate, hydrogen sulfide, sulfide dioxides, alcohol based products, paints, thinner, solvents, adhesives, hair spray, after shave, perfume, and some cleaning agents.

- Move the Smoke/CO Alarm and place in another location prior to performing any of the following:
- Straining or stripping wood floors or furniture
- Painting
- Wall papering
- Using adhesives

Storing the unit in a plastic bag during any of the above projects will protect the sensors from damage. When household cleaning supplies or similar contaminants are used, the area must be well ventilated.

▲ WARNING: Reinstall the Smoke/CO Alarm as soon as possible to assure continuous protection.

12. GOOD SAFETY HABITS

DEVELOP AND PRACTICE A PLAN OF ESCAPE

Prepare and practice a home escape plan twice a year, including drills at night. Know two ways out of every room (door & window) and identify a meeting place outside the home where everyone will gather once they have exited the residence. When two people have reached the meeting place, one should leave to call 911 while the second person stays to account for additional family members. **Establish a rule that once you're out, you never reenter under any circumstance!**

is not burning completely and may be releasing CO. Teach all household members what the alarm sounds like and how to respond. Fire Departments, most utility companies and HVAC contractors will perform CO inspections, some may charge for this service. It's advisable to inquire about any applicable fees prior to having the service performed. Kids will not pay for, or reimburse the owner or user of this product, for any repair or dispatch calls related to the alarm sounding.

SYMPTOMS OF CO POISONING

Initial carbon monoxide poisoning symptoms are similar to the flu with no fever and can include dizziness, severe headaches, nausea, vomiting and disorientation. Everyone is susceptible but experts agree that unborn babies, pregnant women, senior citizens and people with heart or respiratory problems are especially vulnerable. If symptoms of carbon monoxide poisoning are experienced seek medical attention immediately. CO poisoning can be determined by a carboxyhemoglobin test.

The following symptoms are related to CARBON MONOXIDE POISONING and should be discussed with ALL members of the household:

1. **Mild Exposure:** Slight headache, nausea, vomiting, fatigue (often described as "Flu-like" symptoms).
2. **Medium Exposure:** Severe throbbing headache, drowsiness, confusion, fast heart rate.
3. **Extreme Exposure:** Unconsciousness, convulsions, cardio respiratory failure and death.

The above levels of exposure relate to healthy adults. Levels differ for those at high risk. Exposure to high levels of carbon monoxide can be fatal or cause permanent damage and disabilities. Many cases of reported carbon monoxide poisoning indicate that while victims are aware they are not feeling well, they become so disoriented they are unable to save themselves by either exiting the building, or calling for assistance. Also, young children and household pets may be the first effected. Familiarization with the effects of each level is important.

11. CLEANING YOUR ALARM

YOUR ALARM SHOULD BE CLEANED AT LEAST ONCE A YEAR

You can clean the interior of your alarm (sensing chamber) by using compressed air or a vacuum cleaner hose and blowing or vacuuming through the openings around the perimeter of the alarm. The outside of the alarm can be wiped with a damp cloth. Use only water to dampen the cloth, use of detergents or cleaners could damage the alarm.

SMOKE DETECTION – ARE MORE SMOKE ALARMS DESIRABLE?

The required number of smoke alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke alarms. For this reason, it is recommended that the homeowner consider the use of additional smoke alarms for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required smoke alarms. The installation of smoke alarms in attics (finished or unfinished), garages, or within 6' of a heating or cooking appliance is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.

CALIFORNIA STATE FIRE MARSHALL

Early warning fire 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 the bedrooms), heat or smoke detectors in the living rooms, dining rooms, bedrooms, kitchens, hallways, attics, furnace rooms, closets, utility and storage rooms, basements and attached garages.

FCC

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.

13. SERVICE INFORMATION

During the specified warranty period Kidde will repair or replace, at its discretion any defective Kidde Alarms that are returned in a postage paid package to the following address: Kidde, Attn: Warranty Returns, 1016 Corporate Park Drive, Mebane, NC 27302, USA.

Please include your name, address and phone number along with a brief description of what is wrong with the unit. For further assistance please call our toll free Customer Service at 1-800-880-6788. Damage from neglect, abuse or failure to adhere to any of the enclosed instructions will result in termination of the warranty, and the unit will not be replaced or repaired.

- Make a floor plan indicating all doors and windows and at least two (2) escape routes from each room. Second story windows may need a rope or chain ladder.
- Have a family meeting and discuss your escape plan, showing everyone what to do in case of fire and where to meet after they leave the house.
- Ensure that small children hear the alarm and wake when it sounds. They must wake up in order to execute the escape plan. Practice allows all occupants to test your plan before an emergency. You may not be able to reach your children. It is important they know what to do.
- Familiarize everyone with the sound of the smoke/CO alarm and train them to leave your home when they hear it.
- Current studies have shown smoke/CO alarms may not awaken all sleeping individuals, and that it is the responsibility of individuals in the household that are capable of assisting others to provide assistance to those who may not be awakened by the alarm sound, or to those who may be incapable of safely evacuating the area unassisted.
- Install and maintain fire extinguishers on every level of the home and in the kitchen, basement and garage. Know how to use a fire extinguisher prior to an emergency.

FIRE PREVENTION

Never smoke in bed, or leave cooking food unattended. Teach children never to play with matches or lighters! Train everyone in the home to recognize the alarm pattern and to leave the home using their escape plan when it's heard. Know how to do "Stop, Drop and Roll" if clothes catch on fire, and how to crawl low under smoke. Install and maintain fire extinguishers on every level of the home and in the kitchen, basement and garage.

NFPA (NATIONAL FIRE PREVENTION ASSOCIATION)

For your information, the National Fire Protection Association's Standard 72, reads as follows:

Smoke Detection. Where required by applicable laws, codes, or standards for the specified occupancy, approved single and multiple-station smoke alarms shall be installed as follows:

- (1) In all sleeping rooms.
- (2) Outside of each separate sleeping area, in immediate vicinity of the sleeping rooms.
- (3) On each level of the dwelling unit, including basements. Exception: in existing one- and two-family dwelling units, approved smoke alarms powered by batteries are permitted.

This user's guide and the products described herein are copyrighted, with all rights reserved. Under these copyright laws, no part of this user's guide may be copied for use without the written consent of Kidde. If you require further information please contact Customer Service at 1-800-880-6788 or write us at: Kidde, 1016 Corporate Park Drive, Mebane, NC 27302. Our internet address is www.kidde.com.

TEN YEAR LIMITED WARRANTY

Kidde warrants that the enclosed alarm will be free from defects in material and workmanship or design under normal use and service for a period of ten years from the date of purchase. The obligation of Kidde under this warranty is limited to repairing or replacing the alarm or any part which we find to be defective in material, workmanship or design, free of charge, upon receiving the alarm with proof of date of purchase, postage and return postage prepaid, to Warranty Service Department, Kidde, 1016 Corporate Park Drive, Mebane, NC 27302.

This warranty shall not apply to the alarm if it has been damaged, modified, abused or altered after the date of purchase or if it fails to operate due to improper maintenance or inadequate power. Any implied warranties arising out of this sale, including but not limited to the implied warranties of description, merchantability and fitness for a particular purpose, are limited in duration to the above warranty period. In no event shall the Manufacturer be liable for loss of use of this product or for any indirect, special, incidental or consequential damages, or costs, or expenses incurred by the consumer or any other user of this product, whether due to a breach of contract, negligence, strict liability in tort or otherwise.

The Manufacturer shall have no liability for any personal injury, property damage or any special, incidental, contingent or consequential damage of any kind resulting from gas leakage, smoke, fire or explosion.

Since some states do not allow limitations of the duration of an implied warranty or do not allow the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you. While this warranty gives you specific legal rights, you may also have other rights which vary from state to state.

The above warranty may not be altered except in writing signed by both parties hereto. Your Kidde Smoke Alarm is not a substitute for property, fire, disability, life or other insurance of any kind.

Appropriate insurance coverage is your responsibility. Consult your insurance agent. Opening the unit will void the warranty.

QUESTIONS OR FOR MORE INFORMATION
Call our Product Support line at 1-800-880-6788 or contact
us at our website at www.kidde.com



Kidde 1016 Corporate Park Drive, Mebane, NC 27302

BALTIMORE COUNTY FIRE DEPARTMENT - SENIOR PROGRAM REFERRAL LIST

Contact your area EMS Lieutenant for more information

Agency	AERS Adult Evaluation & Review Services	DSS/APS Dept. of Social Services/ Adult Services	Dept. of Aging	Code Enforcement	Child Abuse/ Neglect
Contact Numbers	410-887-2740 Monday - Friday 8:30 a.m. - 4:30 p.m.	410-853-3000, Press 2 Monday - Friday 8:00 a.m. - 4:30 p.m. After hours: 410-583-9398	410-887-2594 Monday - Friday 8:30 a.m. - 4:30 p.m.	410-887-3351 Monday - Friday 8:30 a.m. - 4:30 p.m.	CONTACT POLICE
Type of Referral	Medical Problems	At-Risk/Abuse	General Assistance	Unsafe/Unsanitary Homes	
Age/Requirements	Adult Baltimore County Resident	Adult Baltimore County Resident	Services for 60+ Baltimore County Residents Resource information for seniors and adults with disabilities	Baltimore County Residents Any Age	
Referral Issues	-Coordination of medical care, medications -Access to home health care, community based resources/meals on wheels/medical equipment, other concrete services -Evaluation for alternative living/nursing home entry -Provide nursing assistance <u>PROGRAMS ARE VOLUNTARY</u>	-At-risk abuse, neglect or financial exploitation -Inadequate shelter -Lack of essential medical care -Adult foster care/Project HOME -Homeless services -Food stamps/Medical Assistance -Housing services	-Help w/applications for financial assistance, entitlements -Accessing funds for one-time emergencies -Accessing concrete services, transportation -Family caregiver issues -Screening for Medicaid, other long- term services and supports -Info on long term care options -Advocacy for long-term care residents - all ages <u>PROGRAMS ARE VOLUNTARY</u>	ALSO REFER TO DSS/APS -Unsafe/unsanitary homes -Fire/Health hazards -Odors -Issues that impede public safety personnel from getting to the patient	