Introduction

Thank you for choosing BRK Brands, Inc. for your Smoke Alarm needs. You have purchased a state-of-the-art Smoke Alarm designed to provide you with early warning of a fire.

Key features include:

- **Smart Technology** designed to help reduce unwanted or nuisance alarms.
- **Single Button Test/Silence** eliminates confusion. Depending on what mode the alarm is in, pushing the button provides different functions such as testing the alarm, silencing the alarm, re-testing the alarm when in silence and clearing the Latching feature.
- **Latching Alarm Indicator** easily identifies initiating alarm even after the alarm condition has subsided.
- **Perfect Mount System** includes a gasketless base for easy installation and a new mounting bracket that keeps the alarm secure over a wide rotation range to allow for perfect alignment.
- **Dust Cover** is included to keep the alarm clean during construction.
- **Easy Installation/Maintenance** features include a large opening in the mounting bracket for easy access to wiring. A battery pull tab keeps the battery fresh until the home is occupied. A Side Load Battery Drawer allows for easy battery replacement without removing the alarm from the ceiling or wall (Model 9120B only).
- **Improved UV Resistance** keeps the alarm from discoloring over time.

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

**FIRE SAFETY TIPS**

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

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

**BEFORE YOU INSTALL THIS SMOKE ALARM**

IMPORTANT! Read “Recommended Locations for Smoke Alarms” and “Locations to Avoid for Smoke Alarms” before beginning. This unit monitors the air, and when smoke reaches its sensing chamber, it alarms. It can give you more time to escape before fire spreads. This unit can ONLY give an early warning of developing fires if it is installed, maintained and located where smoke can reach it, and where all residents can hear it, as described in this manual. This unit will not sense gas, heat, or flame. It cannot prevent or extinguish fires.

Understand The Different Type of Smoke Alarms

**Battery powered or electrical? Different Smoke Alarms provide different types of protection. See “About Smoke Alarms” for details.**

Know Where To Install Your Smoke Alarms

Fire Safety Professionals recommend at least one Smoke Alarm on every level of your home, in every bedroom, and in every bedroom hallway or separate sleeping area. See “Recommended Locations For Smoke Alarms” and “Locations To Avoid For Smoke Alarms” for details.

Know What Smoke Alarms Can and Can’t Do

A Smoke Alarm can help alert you to fire, giving you precious time to escape. It can only sound an alarm once smoke reaches the sensor. See “Limitations of Smoke Alarms” for details.

Check Your Local Building Codes

This Smoke Alarm is designed to be used in a typical single-family home. It alone will not meet requirements for boarding houses, apartment buildings, hotels or motels. See “Special Compliance Considerations” for details.
**THE PARTS OF THIS SMOKE ALARM**

- 1 Mounting Bracket
- 2 Mounting Slots
- 3 Locking Pins (break out of bracket)
- 4 Hot (Black) AC Wire
- 5 Neutral (White) AC Wire
- 6 Interconnect (Orange) Wire
- 7 Latch to Open Battery Compartment
- 8 Swing-Out Battery Compartment
- 9 Quick-Connect Power Connector
The basic installation of this Smoke Alarm is similar whether you want to install one Smoke Alarm, or interconnect more than one Smoke Alarm. If you are interconnecting more than one Smoke Alarm, you MUST read “Special Requirements For Interconnected Smoke Alarms” below before you begin installation.

\section*{DANGER!}

\textbf{ELECTRICAL SHOCK HAZARD.} Turn off power to the area where you will install this unit at the circuit breaker or fuse box before beginning installation. Failure to turn off the power before installation may result in serious electrical shock, injury or death.

1. Using wire nuts, connect the power connector to the household wiring.

\section*{WARNING!}

Improper wiring of the power connector or the wiring leading to the power connector will cause damage to the Alarm and may lead to a non-functioning Alarm.

\section*{STAND-ALONE ALARM ONLY:}

- Connect the black wire on the power connector to the neutral wire in the junction box.
- Connect the orange wire on the power connector to the interconnect wire in the junction box. Repeat for each unit you are interconnecting. Never connect the hot or neutral wires in the junction box to the orange interconnect wire. Never cross hot and neutral wires between Alarms.

2. Remove the mounting bracket from the base, and attach it to the junction box.

3. Plug the power connector into the back of the Smoke Alarm.

4. Position the base of the Smoke Alarm over the mounting bracket and turn. The Alarm will remain secure over a wide rotation range to allow for perfect alignment. When wall mounting, this will allow fine-tuning on the wording level. The Alarm can be positioned over the bracket every 120°. Rotate the Alarm until aligned properly.

5. Check all connections.

\section*{STAND-ALONE ALARM ONLY:}

- If you are only installing one Smoke Alarm, restore power to the junction box.

\section*{INTERCONNECTED UNITS ONLY:}

- If you are interconnecting multiple Smoke Alarms, repeat steps 1-5 for each Smoke Alarm in the series. When you are finished, restore power to the junction box.

\section*{DANGER!}

\textbf{ELECTRICAL SHOCK HAZARD.} Do not restore power until all Smoke Alarms are completely installed. Restoring power before installation is complete may result in serious electrical shock, injury or death.

6. Make sure the Smoke Alarm is receiving AC power. Under normal operation, the Green power indicator light will shine continuously.

7. If the Green power indicator light does not light, \textbf{TURN OFF POWER TO THE JUNCTION BOX} and recheck all connections. If all connections are correct and the Green power indicator still does not light when you restore the power, the unit should be replaced immediately.

8. \textbf{Single Station Alarms:} Test each Smoke Alarm. Press and hold the Test/Silence button until the unit alarms. \textbf{Interconnected Alarms:} Press and hold the Test/Silence button until the unit alarms. All interconnected Alarms should sound. The other Alarms sounding only tests the interconnect signal between Alarms. It does not test each Alarm's operation. You must test each Alarm individually to check if the Alarm is functioning properly.

\section*{DANGER!}

If any unit in the series does not alarm, \textbf{TURN OFF POWER} and recheck connections. If it does not alarm when you restore power, replace it immediately.

9. For new construction, place supplied dust cover over Alarm to prevent damage from dust and construction debris. When construction is complete, remove cover.

\section*{WARNING!}

Smoke will not be able to reach smoke sensor while cover is in place. Cover must be removed!

\section*{SPECIAL REQUIREMENTS FOR INTERCONNECTED SMOKE ALARMS}

\section*{WARNING!}

- Failure to meet any of the above requirements could damage the units and cause them to malfunction, removing your protection.
- AC and AC/DC Smoke Alarms can be interconnected. Under AC power, all units will alarm when one senses smoke. When power is interrupted, only the AC/DC units in the series will continue to send and receive signals. AC powered Smoke Alarms will not operate.

Interconnected units can provide earlier warning of fire than stand-alone units, especially if a fire starts in a remote area of the dwelling. If any unit in the series senses smoke, all units will alarm. To determine which Smoke Alarm initiated an alarm, see table:

\begin{table}
\centering
\begin{tabular}{|c|c|}
\hline
On Initiating Alarm(s) & Red LED(s) flashes (flash) rapidly \tabularnewline
On All Other Alarms & Red LED is Off \tabularnewline\hline
\end{tabular}
\caption{Warning Light Behavior for Interconnected Alarms}
\end{table}

\begin{table}
\centering
\begin{tabular}{|c|c|}
\hline
On Initiating Alarm(s) & Green LED(s) On for 2 seconds/Off for 2 seconds \tabularnewline
On All Other Alarms & Green LED(s) On, Red LED(s) is Off \tabularnewline\hline
\end{tabular}
\caption{Warning Light Behavior for Stand-Alone Alarms}
\end{table}

Compatible Interconnected Units

\section*{IMPORTANT!}

Interconnected units within a single family residence only. Otherwise all house-holds will experience unwanted alarms when you test any unit in the series. Interconnected units will only work if they are wired to compatible units and all requirements are met. This unit is designed to be compatible with First Alert® Smoke Alarm Models SA4120, SA4121B, SA100B and BRK Electronics® Smoke Alarm Models 9120, 9120B, SC6120B, SC9120B, 7010, 7010B, 100S, 4120, 4120B, 4120SB, RM3 (Relay Module); BRK Electronics® CO Alarm Models COS120BN, COS120PDBN; BRK Electronics® Heat Alarm Models HD613SB and HDE135SB.

Interconnected units must meet ALL of the following requirements:

- A maximum of 18 compatible units may be interconnected (Maximum of 12 Smoke Alarms).
- The same fuse or circuit breaker must power all interconnected units.
- The total length of wire interconnecting the units should be less than 1000 feet (300 meters). This type of wire is commonly available at Hardware and Electrical Supply stores.
- All wiring must conform to all local electrical codes and NFPA 70 (NEC). Refer to NFPA 72, NFPA 101, and/or your local building code for further connection requirements.
**OPTIONAL LOCKING FEATURES**

The optional locking features are designed to discourage unauthorized removal of the battery or alarm. It is not necessary to activate the locks in single-family households where unauthorized battery or alarm removal is not a concern.

These Smoke Alarms have two separate locking features: one to lock the battery compartment, and the other to lock the Smoke Alarm to the mounting bracket. You can choose to use either feature independently, or use them both.

**Tools you will need:** • Needle-nose pliers or utility knife • Standard Flathead screwdriver.

Both locking features use locking pins, which are molded into the mounting bracket. Using needle nose pliers or a utility knife, remove one or both pins from the mounting bracket, depending on how many locking features you want to use.

**IMPORTANT!**

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

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**TO LOCK THE BATTERY COMPARTMENT**

(Model 9120B Only)

Do not lock the battery compartment until you have activated the battery and tested the battery back-up.

1. **Activate the battery back-up by removing the “Pull to Activate Battery Back-Up” tab.**
2. **Push and hold test button until the alarm sounds: 3 beeps, pause, 3 beeps, pause.**

**IMPORTANT!**

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

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

4. Push the locking pin through the black dot on the label on the back of the Smoke Alarm.

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**TO UNLOCK THE BATTERY COMPARTMENT**

(Model 9120B Only)

**IMPORTANT!**

Once the Smoke Alarm is installed, you must disconnect it from the AC power before unlocking the battery compartment.

⚠️ **DANGER!**

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Smoke Alarm is installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or death.

⚠️ **WARNING!**

Always discharge the branch circuit before servicing an AC or AC/DC Smoke Alarm. First, turn off the AC power at the circuit breaker or fuse box. Next, remove the battery from Smoke Alarms with battery back-up. Finally, press and hold the test button for 5-10 seconds to discharge the branch circuit.

1. Remove the Smoke Alarm from the mounting bracket. If the unit is locked to the bracket, see the section “To Unlock the Mounting Bracket.”
2. Disconnect the power connector by gently prying it away from the back of the Smoke Alarm.
3. Insert a flathead screwdriver under the head of the locking pin, and gently pry it out of the battery compartment lock. (If you plan to relock the battery compartment, save the locking pin.)
4. To relock the battery compartment, close the battery door and reinsert the locking pin in lock.
5. Reconnect the power connector to the back of the Smoke Alarm, reattach the Smoke Alarm to the mounting bracket, and restore the power.

**IMPORTANT!**

When replacing the battery, always test the Smoke Alarm before relocking the battery compartment.

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**TO LOCK THE MOUNTING BRACKET**

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

2. Insert the locking pin into the lock located on the base as shown in the diagram.

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

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**TO UNLOCK THE MOUNTING BRACKET**

⚠️ **DANGER!**

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Smoke Alarm is installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or death.

⚠️ **WARNING!**

Always discharge the branch circuit before servicing an AC or AC/DC Smoke Alarm. First, turn off the AC power at the circuit breaker or fuse box. Next, remove the battery from Smoke Alarms with battery back-up. Finally, press and hold the test button for 5-10 seconds to discharge the branch circuit.

1. Insert a flathead screwdriver between the mounting bracket pin and the mounting bracket.
2. Pry the Smoke Alarm away from the bracket by turning both the screwdriver and the Smoke Alarm counterclockwise (left) at the same time.
UNDERSTANDING THE INDICATOR LIGHTS AND ALARM HORN PATTERNS

<table>
<thead>
<tr>
<th>Condition</th>
<th>LED (Red or Green Lights)</th>
<th>Horn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Operation (AC Power)</td>
<td>Green LED ON; flashing Red LED once/minute</td>
<td>No Audible Alarm</td>
</tr>
<tr>
<td>Normal Operation (DC Power – 9120B only)</td>
<td>Green LED OFF; Red LED flashes once/minute</td>
<td>No Audible Alarm</td>
</tr>
<tr>
<td>DURING TESTING</td>
<td>Red LED flashes once every second</td>
<td>Horn pattern: 3 beeps, pause, 3 beeps, pause</td>
</tr>
<tr>
<td>LOW OR MISSING BATTERY (9120B only)</td>
<td>Red LED flashes once/minute</td>
<td>Horn &quot;chirps&quot; once/minute</td>
</tr>
<tr>
<td>ALARM CONDITION Smoke Initiating Device</td>
<td>Red LED flashes rapidly on the unit that triggered the Alarm.</td>
<td>Horn pattern: 3 beeps, pause, 3 beeps, pause repeating on all Alarms</td>
</tr>
<tr>
<td>ALARM CONDITION Interconnect Alarm</td>
<td>Red LED ON in the other Alarms in an interconnected series will be OFF.</td>
<td></td>
</tr>
<tr>
<td>IN SILENCE MODE</td>
<td>Red LED flashes once every 10 seconds</td>
<td>Horn remains silent for up to 10 minutes. Horn will sound if smoke levels increase.</td>
</tr>
<tr>
<td>&quot;LATCHING&quot; ALARM INDICATOR</td>
<td>Green LED ON for 2 seconds/OFF for 2 seconds, repeatedly until reset, on initiating unit(s).</td>
<td>Horn remains silent</td>
</tr>
</tbody>
</table>

Weekly Testing

**WARNING:** NEVER use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home. The built-in test switch accurately tests the unit’s operation as required by Underwriters Laboratories, Inc. (UL). If you choose to use an aerosol smoke product to test the Smoke Alarm, be certain to use one that has been Listed to Underwriters Laboratories, Inc. Safety Standards, and use it only as directed. Use of non-UL Listed products or improper use of UL Listed products may affect the Smoke Alarm’s sensitivity.

**CAUTION:** DO NOT stand close to the Alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. Testing, step away when horn starts sounding.

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 Alarm. Press and hold the test button on the cover of the unit until the alarm sounds (the unit may continue to alarm for a few seconds after you release the button). If it does not alarm, make sure the unit is receiving power and test it again, if it still does not alarm, replace it immediately. During testing, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause.

When testing a series of interconnected units you must test each unit individually. Make sure all units alarm when each one is tested.

Regular Maintenance

**WARNING:** Use only the replacement batteries listed below. The unit may not operate properly with other batteries. Never use rechargeable batteries since they may not provide a constant charge.

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 Alarm at least once a month; gently vacuum the outside of the Smoke Alarm using your household vacuum’s soft brush attachment. Test the Smoke Alarm. Never use water, cleaners or solvents since they may damage the unit.
- If the Smoke 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 “Locations To Avoid For Smoke Alarms” for details.
- When the battery back-up becomes weak, the Smoke Alarm will “chirp” about once a minute (the low battery warning). This warning should last 7 days, but you should replace the battery immediately to continue your protection.

Choosing a replacement battery:
Your Smoke Alarm requires one standard 9V battery. The following batteries are acceptable as replacements: Duracell #MN1604, (Ultra) #MKX1604; Eveready (Energizer) #522; Eveready (Energizer) #1222. You may also use a Lithium battery like the Ultralife U9VL-J for longer service life between battery changes. These batteries are available at many local retail stores.

**IMPORTANT:** Actual battery service life depends on the Smoke Alarm and the environment in which it is installed. All 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”).

If This Smoke Alarm Sounds

Responding to an Alarm

During an alarm, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause.

**WARNING:**
- If the unit alarms and you are not testing the unit, it is warning you of a potentially dangerous situation that requires your immediate attention. NEVER ignore any alarm. Ignoring the alarm may result in injury or death.
- Never disconnect the AC power to quiet an unwanted alarm. Disconnecting the power disables the Alarm so it cannot sense smoke. This will remove 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.

**DANGER:**
- **ELECTRICAL SHOCK HAZARD:** Attempting to disconnect the power connector from the unit when the power is on may result in electrical shock, serious injury or death.
- When an interconnected system of AC powered units is in alarm, the alarm indicator light on the unit(s) that initiated the alarm will blink rapidly. It will remain OFF on any remaining units.
- If the unit alarms and you are certain that the source of smoke is not a fire—cooking smoke or an extremely dusty furnace, for example—open a nearby window or door and fan the smoke away from the unit. Use the Silence Feature to silence the alarm. This will silence the alarm, and once the smoke clears the unit will reset itself automatically.

What to Do in Case of Fire

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

**WARNING:** Alarms have various limitations. See "Limitations of Smoke Alarms" for details.

Using the Silence Feature

The Silence Feature on this unit can temporarily quiet an unwanted alarm for up to 10 minutes.

**WARNING:**
- The Silence Feature does not disable the unit—it makes it temporarily less sensitive to smoke. For your safety, if smoke around the unit is dense enough to suggest a potentially dangerous situation, the unit will stay in alarm or may re-alarm quickly. If you do not know the source of the smoke, do not assume it is an unwanted alarm. Not responding to an alarm can result in property loss, injury, or death. If the unit will not silence and no heavy smoke is present, or if it stays in silence mode continuously, it should be replaced immediately.

**IMPORTANT:**
- To silence Smoke Alarms in an interconnected series:
  1. To silence multiple alarms in an interconnected series, you must press the Test/Silence button on the unit(s) that initiated the alarm.
  **NOTE:** The red LED on the initiating alarm will flash rapidly. The red LED will be OFF on all other non-initiating alarms. No audible sound will be heard. The unit will exit “silence mode” in approximately 10 minutes.
  2. While the unit is in “silence mode”, pressing and holding the Test/Silence button for approximately 10 seconds will test the unit. After testing, the unit will re-enter “silence mode” and the 10-minute timer is reset.
The Latching Alarm Indicator is automatically activated after an Alarm is exposed to alarm levels of smoke. After smoke levels drop below alarm levels, the green LED will be On for 2 seconds/Off for 2 seconds, repeatedly. This feature helps emergency responders, investigators, or service technicians identify which unit(s) in your home were exposed to alarm levels of smoke after the condition has subsided. The Latching Alarm Indicator stays On until you reset it by pressing the Test/Silence button. The Latching Alarm Indicator is also reset when AC and DC power is removed from the Alarm.

IF YOU SUSPECT A PROBLEM
Smoke Alarms may not operate properly because of dead, missing or weak batteries, a build-up of dirt, dust or grease on the Smoke Alarm cover, or installation in an improper location. Clean the Smoke Alarm as described in “Regular Maintenance,” and install a fresh battery, then test the Smoke Alarm again. If it fails to test properly when you use the Test/Silence button, or if the problem persists, replace the Smoke Alarm immediately.

• If you hear a “chirp” once a minute, replace the battery.
• If you experience frequent non-emergency alarms (like those caused by cooking smoke), try relocating the Smoke Alarm.
• If the alarm sounds when no smoke is visible, try cleaning or relocating the Smoke Alarm. The cover may be dirty.
• If the alarm does not sound during testing, make sure it is receiving AC power from the household current.

WARNING!
Always discharge the branch circuit before servicing an AC or AC/DC Smoke Alarm. First, turn off the AC power at the circuit breaker or fuse box. Next, remove the battery from Smoke Alarms with battery back-up. Finally, press and hold the test button for 5-10 seconds to discharge the branch circuit.

Do not try fixing the alarm yourself – this will void your warranty!
If the Smoke Alarm is still not operating properly, and it is still under warranty, please see “How to Obtain Warranty Service” in the Limited Warranty.

RECOMMENDED LOCATIONS FOR SMOKE ALARMS

Installing Smoke Alarms in Single-Family Residences
The National Fire Protection Association (NFPA), recommends one Smoke Alarm on every floor, 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, storage areas, finished attics, and basements, where temperatures normally remain between 40°F (4°C) and 100°F (38°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 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 the first-second floor stairway, and at the bottom of the 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.

INSTALLING SMOKE ALARMs IN MOBILE HOMES & RVs
For minimum security install one Smoke 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. Smoke Alarms should be installed where temperatures normally remain between 40°F (4°C) and 100°F (38°C). WARNING: Test units used in RVs after the vehicle has been in storage, before every trip, and once a week while in use. Failure to test units used in RVs as described may remove your protection.

AGENCY PLACEMENT RECOMMENDATIONS
NFPA 72 (National Fire Code) Chapter 11
“For your information, the National Fire Protection Association’s Standard 72, reads as follows:

11.5.1 Smoke Alarms. 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. Exception: Smoke Alarms shall not be required in sleeping rooms in existing one- and two-family dwelling units. (2) Outside of each separate sleeping area, in immediate vicinity of the sleeping rooms. (3) On each level of the dwelling unit, including attics, basements, crawl spaces, and areas separated by a door from the areas protected by the required Smoke Alarms. The installation of Smoke Alarms in kitchens, unfinished attics, or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.”

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.

LOCATIONS TO AVOID FOR SMOKE ALARMS
For best performance, AVOID installing Smoke Alarms in these areas:
• Where combustion particles are produced. Combustion particles form when something burns. Areas to avoid include poorly ventilated kitchens, garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater, space heater) if possible. In areas where a 20-foot (6 meter) distance is not possible – in modular, mobile, or smaller homes, for example – it is recommended the Smoke Alarm be placed as far from these fuel-burning sources as possible. The placement recommendations are intended to keep these Alarms at a reasonable distance from a fuel-burning source, and thus reduce “unwanted” alarms. Unwanted alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning source. Ventilate these areas as much as possible.
• In air streams near kitchens. Air currents can draw cooking smoke into the sensing chamber of a Smoke Alarm near the kitchen.
• In very damp, humid or steamy areas, or directly near bathrooms with showers. Keep units at least 10 feet (3 meters) away from showers, saunas, dishwashers, etc.
• Where the temperatures are regularly below 40°F (4°C) or above 100°F (38°C) including unheated buildings, outdoor rooms, porches, or unfinished attics or basements.
• In very dusty, dirty, or greasy areas. Do not install a Smoke Alarm directly over the stove or range. Clean a laundry room unit frequently to keep it free of dust or lint.
• Near fresh air vents, ceiling fans, or in very drafty areas. Drafts can blow smoke away from the unit, preventing it from reaching sensing chamber.

Continued...
Locations to Avoid for Smoke Alarms, Continued

- In insect infested areas. Insects can clog openings to the sensing chamber and cause unwanted alarms.
- Less than 12 inches (305 mm) away from fluorescent lights. Electrical “noise” can interfere with the sensor.
- In “dead air” spaces. “Dead air” spaces may prevent smoke from reaching the Smoke Alarm.

Avoiding Dead Air Spaces

“Dead air” spaces may prevent smoke from reaching the Smoke Alarm. To avoid dead air spaces, follow the 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 gabled or cathedral ceilings, 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.

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. However, they do not provide interconnected functionality.

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) backup: Can operate if electricity fails, but may not provide the same level of protection as interconnected units. AC and AC/DC units must be installed by a qualified electrician.

Wireless Interconnected Alarms: Offer the same interconnected functionality as AC powered alarm systems. Even if the batteries are low or dead, the unit will continue to install and do not require professional installation. They provide protection even when electricity fails, provided the batteries are fresh and correctly installed.

Smoke Alarms for Solar or Wind Energy users and battery backup power systems: AC powered Smoke Alarms should only be operated with true or pure sine wave inverters. Operating this Smoke Alarm with most battery-powered UPS (uninterruptible power supply) products or square wave or “quasi sine wave” inverters will damage the Alarm. If you are not sure about your inverter or UPS type, please consult with the manufacturer 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 horn. In new construction, meet the requirements of the Americans With Disabilities Act. These units can be interconnected so if one unit senses smoke, all units alarm.

Smoke alarms are not to be used with detector guards or shield. Smoke Alarms may not have time to alarm before the fire itself causes damage, injury, or death.

Special Compliance Considerations

Warning!

This Smoke Alarm alone is not a suitable substitute for complete fire detection systems. Smoke Alarms alone will not detect fires in many places holding many people—such as schools, libraries, hotels, motels, dormitories, hospitals, long term care facilities, nursing homes, day care facilities, or group homes of any kind—even if they were once single-family homes. It is not a substitute for the complete fire detection systems in warehouses, industrial facilities, commercial buildings, and special-purpose non-residential buildings which require special fire detection systems and alarm systems. Depending on the severity and type of a fire, this Smoke Alarm may be used to provide additional protection in these facilities.

The following information applies to all four types of buildings listed below:

1. Single-Family Residence: Smoke Alarms should be installed on every level of the home, in every bedroom, and in each bedroom hallway.
2. Multi-Family or Mixed Occupant Residence: Apartment buildings, condominiums
3. Institutions: Hospitals, day care facilities, long term care facilities
4. Hotels and Motels: Also boarding houses and dormitories

This Smoke Alarm is suitable for use in individual patient sleeping/resident rooms provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, hallways, or ICUs. Using this Smoke Alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations.

The Smoke Alarm may be used to provide additional protection in these facilities.

Limitations of Smoke Alarms

Smoke Alarms have played a key role in reducing deaths resulting from home fires worldwide. However, like any warning device, Smoke Alarms can only work if they are properly located, installed, and maintained, and if smoke reaches the Alarms. They are not foolproof.

Smoke alarms may not warn all individuals. Practice the escape plan at least twice a year, making sure all family members know what to do.

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 wake to the smoke alarm or the fire, 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 emergent. In the event of an emergent situation, family members are sleeping in order to determine their response to the sound of the smoke alarm while sleeping and to determine whether they may need assistance in the event of an emergency.

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

Smoke Alarms cannot detect fires if the smoke does not reach the Alarms. Smoke from fires in chimneys, or in stairwells, on roof or on the other side of closed doors may not reach the sensing chamber and set off the Alarm. That is why one unit should be installed inside each bedroom or sleeping area—especially if bedroom or sleeping area doors are closed at night—and in the hallway between them.

Smoke Alarms may not detect fire on another floor or area of the dwelling.

For example, a stand-alone unit on the second floor may not detect smoke from a basement fire until the fires spread. This may not give you enough time to escape safely. That is why recommended minimum protection is at least one unit in every sleeping area, and every bedroom on every level of your dwelling. Even with a unit on every floor, a stand-alone unit may not provide the same level of protection as interconnected units, especially if the fire starts in a remote area. Some safety experts recommend installing interconnected alarms in all sleeping areas (see interconnected Smoke Alarms) or professional fire detection systems, so if one unit senses smoke, all units alarm. Interconnected units may provide earlier warning than stand-alone units since all units alarm when one is actuated.

Smoke Alarms may not be heard. Though the alarm horn in this unit meets or exceeds current standards, it may not be heard if: 1) the unit is located outside a closed or partially closed door of a pre-wired smoke detector; 2) the unit is closed or partially closed during a fire drill, 3) the Alarms are drowned out by noise from stereo, TV, traffic, air conditioner or other appliances, 4) residents recently consumed alcohol or drugs, 5) residents are hearing impaired.

Special purpose Smoke Alarms should not be used in common area areas such as hallways, lobbies, day care facilities, or group homes of any kind—especially if they were once single-family homes. It is not a suitable substitute for complete fire detection systems. Depending on the severity and type of a fire, this Smoke Alarm may be used to provide additional protection in these facilities.

SPECIAL COMPLIANCE CONSIDERATIONS

Limited Life: The unit should be replaced immediately if it is not operating properly. You should always replace a Smoke Alarm after 10 years from date of manufacture. Write the purchase date on the space provided on back of unit.

Limited Warranty

BRK Brands, Inc., (“BRK”) the maker of BRK® brand and First Alert® brand products, warrants that for a period of ten years from the date of purchase, in the original retail purchaser of the product, if, during the warranty period, the product shall be found to be defective in material or 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 at BRK’s or its authorized distributor’s place or by a service representative.

This warranty is valid only in the United States, its territories, and possessions, and the District of Columbia. The warranty is not transferable to anyone other than the original retail purchaser of the product from BRK, and no person, agent, or other entity is authorized to extend the warranty or to assume for BRK any liability in connection with the product.

This warranty does not cover normal wear of parts or damage resulting from: use contrary to the operating instructions; disassembly, repair or alteration by anyone other than BRK an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit. 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 may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

How to Obtain Warranty Service

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-424-3455, 7:30-6:30 PM Central Monday through Friday. 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., 2515 W. 6th St., El Paso, TX 79905

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

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