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

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**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.

**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.
BEFORE YOU INSTALL THIS SMOKE ALARM, Continued

**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!**

- This unit will not alert hearing impaired residents. It is recommended that you install special units which use devices like flashing strobe lights to alert hearing impaired residents.
- Installation of this unit must conform to the electrical codes in your area; Articles 210, 760 of NFPA 70 (NEC), NFPA 72, NFPA 101; ICC; SBC (SBCCI); UBC (ICBO); NBC (BOCA); OTFDC (CABO), and any other local or building codes that may apply. Wiring and installation must be performed by a licensed electrician. Failure to follow these guidelines may result in injury or property damage.
- This unit must be powered by a 24-hour, 120V AC pure sine wave 60 Hz circuit. Be sure the circuit cannot be turned off by a switch, dimmer, or ground fault circuit interrupter. Failure to connect this unit to a 24-hour circuit may prevent it from providing constant protection. Unit may be connected to an arc fault circuit interrupter.
- This Smoke Alarm must have AC or battery power to operate. If the AC power fails, battery back-up will allow the alarm to sound for at least 4 minutes. If AC power fails and the battery is weak, protection should last for up to 7 days. If AC power fails and the battery is dead or missing, the alarm cannot operate.
- Never disconnect the power from an AC powered unit to stop an unwanted alarm. Doing so will disable the unit and remove your protection. In the case of a true unwanted alarm open a window or fan the smoke away from the unit. The alarm will reset automatically when it returns to normal operation. Never remove the batteries from a battery operated unit to stop an unwanted alarm (caused by cooking smoke, etc.). Instead open a window or fan the smoke away from the unit. The alarm will reset automatically.

**CAUTION!**

- Connect this unit ONLY to other compatible units. See “How To Install This Smoke Alarm” for details. Do not connect it to any other type of alarm or auxiliary device. Connecting anything else to this unit may damage it or prevent it from operating properly.
- The battery compartment resists closing unless a battery is installed. This warns you the unit will not operate under DC power without a battery.
- Do not paint over the unit. Paint may clog the openings to the sensing chamber and prevent the unit from operating properly.

HOW TO INSTALL THIS SMOKE ALARM

This Smoke Alarm is designed to be mounted on any standard wiring junction box to a 4-inch (10 cm) size, on either the ceiling or wall. Read “Recommended Locations For Smoke Alarms” and “Locations to Avoid For Smoke Alarms” before you begin installation.

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

**WARNING!**

Make sure the Alarm is not receiving excessively noisy power. Examples of noisy power could be major appliances on the same circuit, power from a generator or solar power, light dimmer on the same circuit or mounted near fluorescent lighting. Excessively noisy power may cause damage to your Alarm.

**THE PARTS OF THIS SMOKE ALARM**

The Mounting Bracket:
To remove the mounting bracket from the Smoke Alarm base, hold the Smoke Alarm base firmly and twist the mounting bracket counterclockwise. The mounting bracket installs onto the junction box. It has a variety of screw slots to fit most boxes.

The Power Connector:
The power connector plugs into a power input block on the Smoke Alarm. It supplies the unit with AC power.
- The black wire is “hot.”
- The white wire is neutral.
- The orange wire is used for interconnect.

If you need to remove the power connector, insert a flat screwdriver blade between the power connector and the security tab inside the power input block. Gently pry back the tab and pull the connector free.
FOLLOW THESE INSTALLATION STEPS

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.

DANGER!

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.

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.

STAND-ALONE ALARM ONLY:
• Connect the white wire on the power connector to the neutral wire in the junction box.
• Connect the black wire on the power connector to the hot wire in the junction box.
• Tuck the orange wire inside the junction box. It is used for interconnect only.

INTERCONNECTED UNITS ONLY:
Strip off about 1/2" (12 mm) of the plastic coating on the orange wire on the power connector.
• Connect the white wire on the power connector to the neutral wire in the junction box.
• Connect the black wire on the power connector to the hot 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 positioning to compensate for misaligned wall studs and to keep the wording level. The Alarm can be positioned over the bracket every 120°. Rotate the Alarm until aligned properly.
5. Check all connections.

STAND-ALONE ALARM ONLY:
• If you are only installing one Smoke Alarm, restore power to the junction box.

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.

DANGER!

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, 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. Single Station Alarms: Test each Smoke Alarm. Press and hold the Test/Silence button until the unit alarms. 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.

DANGER!

If any unit in the series does not alarm, 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.

WARNING!

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

SPECIAL REQUIREMENTS FOR INTERCONNECTED SMOKE ALARMS

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:

During an Alarm:
On Initiating Alarm(s) Red LED(s) flashes (flash) rapidly
On All Other Alarms Red LED is Off

After an Alarm (Latching):
On Initiating Alarm(s) Green LED(s) On for 2 seconds/Off for 2 seconds
On All Other Alarms Green LED(s) On, Red LED(s) is Off

Compatible Interconnected Units

IMPORTANT!
Interconnect units within a single family residence only. Otherwise all household 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, SA100SB and BRK Electronics Smoke Alarm Models 9120, 9120B, SC1201, SC9120B, 7010, 7010B, 7001, 4120, 4120B, 4120SB, RM3 (Relay Module); BRK Electronics CO Alarm Models CO5120BN, CO5120PDBN, BRK Electronics® CO Alarm Models CO5120BN, CO5120PDBN, BRK Electronics Heat Alarm Models HD613SF and HDE613SF.

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.

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.

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 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.

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.

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.

4. Push the locking pin through the black dot on the label on the back of the Smoke Alarm.
Before using the Smoke Alarm, be certain to use one that has been Listed to Underwriters Laboratories, Inc. Safety Standards, and use it only as intended. Smoke Alarms have various limitations. See “Limitations of Smoke Alarms” for details.

**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</td>
<td>No Audible Alarm</td>
</tr>
<tr>
<td></td>
<td>Red LED once/minute</td>
<td></td>
</tr>
<tr>
<td>Normal Operation (DC Power – 9120B only)</td>
<td>Green LED OFF; Red LED</td>
<td>No Audible Alarm</td>
</tr>
<tr>
<td></td>
<td>flashes once/minute</td>
<td></td>
</tr>
<tr>
<td>DURING TESTING</td>
<td>Red LED flashes once/second</td>
<td>Horn pattern: 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>beeps, pause, 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>beeps, pause</td>
</tr>
<tr>
<td>LOW OR MISSING BATTERY (9120B only)</td>
<td>Red LED flashes once/minute</td>
<td>Horn “chirps”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>once/minute</td>
</tr>
<tr>
<td>ALARM CONDITION Smoke Initiating Device</td>
<td>Red LED flashes rapidly</td>
<td>Horn pattern: 3</td>
</tr>
<tr>
<td></td>
<td>on the unit that</td>
<td>beeps, pause, 3</td>
</tr>
<tr>
<td></td>
<td>triggered the Alarm.</td>
<td>beeps, pause</td>
</tr>
<tr>
<td>ALARM CONDITION Interconnect Alarm</td>
<td>Red LED on the</td>
<td>Horn remains silent</td>
</tr>
<tr>
<td></td>
<td>unit in an interconnected</td>
<td>for up to 10 minutes.</td>
</tr>
<tr>
<td></td>
<td>series will be OFF.</td>
<td>Horn will sound if</td>
</tr>
<tr>
<td></td>
<td></td>
<td>smoke levels increase.</td>
</tr>
<tr>
<td>IN SILENCE MODE</td>
<td>Red LED flashes</td>
<td>Horn remains silent</td>
</tr>
<tr>
<td></td>
<td>once every 10 seconds</td>
<td></td>
</tr>
<tr>
<td>“LATCHING” ALARM INDICATOR</td>
<td>Green LED ON for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 seconds/OFF for 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>seconds, repeatedly until</td>
<td></td>
</tr>
<tr>
<td></td>
<td>reset, on initiating unit(s).</td>
<td></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. When 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 outside of the Smoke Alarm using your household vacuum’s soft brush attachment.
- 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) #MX1604; 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.

### WHAT TO DO IN CASE OF FIRE

- Don’t panic; stay calm. Follow your family escape plan.
- Get out of the house as quickly as possible. Don’t stop to get dressed or collect anything.
- 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**

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-to-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

“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 of 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 finished basements. Exception: In existing one- and two-family dwelling units, approved Smoke Alarms powered by batteries are permitted.

A.11.8 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 householder 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 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.
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 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 that if one unit senses smoke, all units operate. They do not operate if electricity fails. AC with battery (DC) back-up: Will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician.

Wireless Interconnected Alarms: Offer the same interconnected functionality as wired interconnected alarms, but 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.

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SPECIAL COMPLIANCE CONSIDERATIONS

WARNING!

This Smoke Alarm alone is not a substitute for complete fire detection systems. Smoke Alarms are designed to alert people in danger of a fire, help them escape safely. That is why recommended minimum protection is at least one unit in every sleeping area, and every room on every level of your dwelling. Even with a unit on every level, Smoke Alarm units alone may not provide sufficient protection in some cases, particularly in large homes, commercial buildings, and multi-story residences. For example, Smoke Alarms may not have time to alarm before the fire itself causes damage, injury, or death, since smoke from some fires may not reach the unit immediately. Examples of this include persons smoking in bed, children playing with matches, or fires caused by violent explosions resulting from escaping gas.

Smoke Alarms are not for use in the following: 1) enclosed or partially enclosed spaces over 18 inches deep from the wall or ceiling, or 2) the Alarm is drowned out by noise from stereo, TV, traffic, air conditioner or other appliances. Special purpose Smoke Alarms should be used for these applications.

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.

LIMITATIONS OF SMOKE ALARMS

Smoke Alarms have a 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 purchase. While the purchase date on the space is provided on back of unit.

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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, BRK, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with new or remanufactured products of the same type during the first year from the date of purchase available when calling. This warranty is valid for the original retail purchaser from the date of initial purchase. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or add any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than BRK or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, 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.

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 1-800-947-9477, 7:30 AM-5:00 PM Central Time 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., 2501 Mound Rd., El Paso, TX 79906.

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.