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.

IMPORTANT! PLEASE READ CAREFULLY AND SAVE

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.

IONIZATION TECHNOLOGY IS GENERALLY MORE SENSITIVE THAN PHOTOELECTRIC TECHNOLOGY AT DETECTING SMALL PARTICLES, WHICH TEND TO BE PRODUCED IN GREATER AMOUNTS BY FLAMING FIRES, WHICH CONSUME COMBUSTIBLE MATERIALS RAPIDLY AND SPREAD QUICKLY. SOURCES OF THESE FIRES MAY INCLUDE PAPER BURNING IN A WASTEBASKET, OR A GREASE FIRE IN THE KITCHEN.

PHOTOELECTRIC TECHNOLOGY IS GENERALLY MORE SENSITIVE THAN IONIZATION TECHNOLOGY AT DETECTING LARGE PARTICLES, WHICH TEND TO BE PRODUCED IN GREATER AMOUNTS BY SMOKE OR SMOOTHER FIRES, WHICH MAY SMOKE FOR HOURS BEFORE BURNING INTO FLAMES. SOURCES OF THESE FIRES MAY INCLUDE CIGARETTE BURNING IN COUCHES OR BEDDING.

FOR MAXIMUM PROTECTION, USE BOTH TYPES OF SMOKE ALARMS ON EACH LEVEL AND IN EVERY BEDROOM OF YOUR HOME.

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.

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, 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.

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www.brkelectronics.com • www.firstalert.com

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 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.

---

**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 and 300.3 (B) of NFPA 70 (NEC), NFPA 72, NFPA 101; IEC; SBC (SBC); UBC (ICBO); NEC (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**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mounting Bracket</td>
<td>Mounting Bracket</td>
</tr>
<tr>
<td>2</td>
<td>Mounting Slots</td>
<td>Mounting Slots</td>
</tr>
<tr>
<td>3</td>
<td>Locking Pins (break out of bracket)</td>
<td>Locking Pins (break out of bracket)</td>
</tr>
<tr>
<td>4</td>
<td>Hot (Black) AC Wire</td>
<td>Hot (Black) AC Wire</td>
</tr>
<tr>
<td>5</td>
<td>Neutral (White) AC Wire</td>
<td>Neutral (White) AC Wire</td>
</tr>
<tr>
<td>6</td>
<td>Interconnect (Orange) Wire</td>
<td>Interconnect (Orange) Wire</td>
</tr>
<tr>
<td>7</td>
<td>Latch to Open Battery Compartment</td>
<td>Latch to Open Battery Compartment</td>
</tr>
<tr>
<td>8</td>
<td>Swing-Out Battery Compartment</td>
<td>Swing-Out Battery Compartment</td>
</tr>
<tr>
<td>9</td>
<td>Quick-Connect Power Connector</td>
<td>Quick-Connect Power Connector</td>
</tr>
</tbody>
</table>
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 black 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 black 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 completed, 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:

<table>
<thead>
<tr>
<th>On Initiating Alarm(s)</th>
<th>Red LED(s) flashes (flash) rapidly</th>
</tr>
</thead>
<tbody>
<tr>
<td>On All Other Alarms</td>
<td>Red LED is Off</td>
</tr>
</tbody>
</table>

### After an Alarm (Latching):

<table>
<thead>
<tr>
<th>On Initiating Alarm(s)</th>
<th>Green LED(s) On for 2 seconds/Off for 2 seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>On All Other Alarms</td>
<td>Green LED(s) On, Red LED(s) is Off</td>
</tr>
</tbody>
</table>

**Compatible Interconnected Units**

**Important!**

Interconnect units within a single family residence only. Otherwise all household units 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 HD6135F and HD6135FB.

**Special 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)

1. Using needle-nose pliers or utility knife, detach one locking pin from the mounting bracket.
2. 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)

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. 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)
3. To relock the battery compartment, close the battery door and reinsert locking pin in lock.
4. 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 LOCK THE MOUNTING BRACKET

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

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 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>Red LED flashes 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 the other Alarms in an interconnected series will be OFF.</td>
<td>Horn remains silent for up to 10 minutes. Horn will sound if smoke levels increase.</td>
</tr>
<tr>
<td>IN SILENCE MODE</td>
<td>Red LED flashes once every 10 seconds</td>
<td>Horn remains silent</td>
</tr>
<tr>
<td>“LATCHING” 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>

WHEN YOU TEST

WARNING!

NEVER use an open flame of any kind to test this unit. You might accidentally damage or short circuit to the unit or 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 from the alarm after it has sounded. 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. This will test the sensitivity of the Smoke Alarm. The alarm may not sound if the unit is not working properly.

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) #MX1604; Eveready Energizer #R52, Eveready Energizer #R1222. 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 the batteries specified above are acceptable replacement batteries for this unit. Regardless of the manufacture’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 unit(s).

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.
- 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 emit an alarm. 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 it 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-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.
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 there is any possibility, install the Smoke Alarm at least 4 inches (102 mm) from a 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 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) 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 alarms, but require professional installation 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” inverter 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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