

IMPORTANT! PLEASE READ CAREFULLY AND SAVE 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.

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 Kev 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 Perfect Mount System includes a gasketless base for easy installation and a new mounting pracket that keeps the alarm secure over a wide rotation range to allow for perfec

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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Consumer Affairs: (800) 323-9005 www.brkelectronics.com • www.firstalert.com

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 fining 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 technology.

Photoelectric technology is generally more sensitive than ionization technology a Photoelectric technology is generally more sensitive man torinzation recurring and detecting large particles, which tend to be produced in greater amounts by smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning in couches or bedding. For maximum protection, use both types of Smoke Alarms on each level and in every

bedroom of your 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 grea and debris-free; 6) Never leave anything cooking on the stove unattended; 7) Keep portal heaters and open flames, like candles, away from flammable materials; 8) Don't let rubbis occurrently and the store s

Keep alarms clean, and test them weekly. Replace alarms immediately if they are not working respriations clearly, and test them very in replace adams immediately for an entry as no working properly. Smoke Alarms that do not work cannot alert you to a fire. Keep at least no working fire extinguisher on every floer, and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper floor in case staris 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 an 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.

ADANGER!

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.

AWARNING!

- 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 beneficial important devices. nearing impaired re
- 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; ICC; SBC (SBCC); UBC (ICBO); NBC (BOCA); OTFDC (CABO), and any other local or building codes that may apply. Wiring and installation must be performed b 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 to represent AC power fails and the battery is dead or missing. innot operate
- a 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 unwante alarm (caused by cooking smoke, etc.). Instead open a window or fan the smoke away from the unit. The alarm will reset automatically.

ACAUTION!

- 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.



AWARNING!

AWARNING!

During an Alarm:

On Initiating Alarm(s)

On All Other Alarms

After an Alarm (Latching):

Compatible Interconnected Units

HOW TO INSTALL THIS SMOKE ALARM

The basic installation of this Smoke Alarm is similar whether you want to install one The basic instantion of this Sinoke Alarm is similar whether you want to instant Sinoke Alarm, or interconnect more than one Sinoke Alarm. If you are interconn more than one Sinoke Alarm, you MUST read "Special Requirements For Interco Sinoke Alarms" balow before you begin installation oke Alarms" below before you begin instal

ADANGER!

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 of the power before installation may result in serious electrical shock, injury or death. Using wire nuts, connect the power connector to the household wiring.

AWARNING!

- 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.
- Connect the white wire on the power connector to the neutral wire in the junction

STAND-ALONE ALARM ONLY:

- 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

- Connect the white wire on the power connector to the neutral wire in the junction
- 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.
- Remove the mounting bracket from the base, and attach it to the junction box.
- Plug the power connector into the back of the Smoke Alarm.
- 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.
- 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 iunction box

ADANGER!

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.

Make sure the Smoke Alarm is receiving AC power. Under normal operation, the

- Green power indicator light will shine continuously 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.
- 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
- nnected 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.

ADANGER!

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 imme



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

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.

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:

Red LED(s) flashes (flash) rapidly

SPECIAL REQUIREMENTS FOR INTERCONNECTED SMOKE ALARMS

red Smoke Alarms will not operation

Red LED is Off

On All Other Alarms Green LED(s) On. Red LED(s) is Off

On Initiating Alarm(s) Green LED(s) On for 2 seconds/Off for 2 seconds



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AWARNING! • If the unit alarms and you are not testing the unit, it is warning you of a potentially dangerous situation that requires your immediate attention. NEVER ignore any alarm. Ignoring the alarm may result in injury or death. Never disconnect the AC power to quiet an unwarted 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. protection. Instead open a window The alarm will reset automatically. If the unit alarms get everyone out of the house immediately. ADANGER!

 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. /hen an interconnected system of AC powered units is in alarm, the alarm indicator light on re 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.

Locking Features (Continued)

- 1. Using needle-nose pliers or utility knife,
- detach one locking pin from mounting
- Insert the locking pin into the
- 3. When you attach the Smoke Alarm to the mounting bracket, the locking pin's head will fit into a notch o

TO UNLOCK THE MOUNTING BRACKET **ADANGER!**

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.

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 batter noke Alarms with battery back-up. Finally, press and hold the test button for 5-10 seconds to discharge the branch circuit



Smoke Alarm counterclockwise (left) at the same time

- Using needle-nose pliers or a utility knife detach one locking pin from the mounting bracket
- Push the locking pin through the black dot on the label on the back of the Smoke

Activate the battery back-up by removing the "Pull to Activate Battery Back-Up" tab.

- Push and hold test button until the alarm sounds: 3 beeps, pause, 3 beeps, pause.
- **IMPORTANT!**





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

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).

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

ACAUTION!

AWARNING!

Test it at least once a week.

constant charge.

Use only the replacement batteries listed below. The unit may not operate property with other batteries. Never use rechargeable batteries since they may not provide a

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

 Clean the Smoke Alarm at least once a month; gently vacuum the outside of the oke 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 nnot be cleaned to avoid unwanted alarms, replace the unit imm · Relocate the unit if it sounds frequent unwanted alarms. See "Locations To Avoid For

 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.

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 retai**l

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 manufacturer's suggested battery life, you MUST replace the battery immediately once the unit starts "chipping" (the "low battery warning").

IF THIS SMOKE ALARM SOUNDS

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





IF THIS SMOKE ALARM SOUNDS, Continue 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
- Never go back inside a burning building for any reason. Contact your Fire Department for ideas on making your home safer.

AWARNING! ms 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.

AWARNING!

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! silence Smoke Alarms in an interconnected series:

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 de" in approximately 10 minutes

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 alarn levels of smole. 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, investiga-tors, 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 vo reset it by pressing the Test/Silence button. The Latching Alarm Indicator is also reset wher 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 attery, then test the Smoke Alarm again. If it fails to test properly when you use the est/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.

AWARNING! 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! Smoke Alarm is still not operating properly, and it is still under warranty, please see \prime 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. 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
- 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. BATTERY OPERATED



INSTALLING SMOKE ALARMS IN MOBILE HOMES & RVS

rea 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, o if you are unsure of the amount of insulation, it is important to install units on inside wall only. Smoke Alarms should be installed where temperatures normally remain between 4 (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

AGENCY PLACEMENT RECOMMENDATIONS NFPA 72 (National Fire Code) Chapter 11

r your information, the National Fire Protection Association's Standard 72, reads

11.5.1 One- and Two-Family Dwelling Units.

11.5.1.1 Smoke Detection. Where required by applicable laws, codes, or standards for the pecified 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 basements. Exception: In existing one- and two family dwelling units, approved Smoke Alarms powered by batteries are permitted.

approved Smoke Alarms powered by batteries are permitted. A.11.8.3 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 ooms and areas of the household as follows: A Smoke Alarm installed in each separate Idons and areas of the industrial at the industrial at a start of the industrial at the industrial attemption at the industrial attemption at the industrial attemption attempti

LOCATIONS TO AVOID FOR SMOKE ALARMS

For best performance, AVOID FOR SMOKE ALARIMS
 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

asonable distance from a fuel-burning source, and thus reduce "unwanted" alarms. nwanted alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning surce. Ventilate these areas as much as possible.

- air streams near kitchens. Air currents can draw cooking smoke into the sensing namber of a Smoke Alarm near the kitchen.
- 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 (47 O or above 100°F (38° C) includin, 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.
 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

nical "dead air" spaces On a peaked, gabled, or cathedral ceiling, install the first Smoke Alarm within 3 feet (0.9 neters) 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 AC/DC units must be installed by a qualified electrician.

Wireless Interconnected Alarms: Offer the same interconnected functionality as with hardwired alarms, without wires. Units are easy to install and do not require profession nstallation. They provide protection even when electricity fails, provided the batteries are resh 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 inverter AC powered Since Adams should only us opported up BS (uninterruptible power supply 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 alarm hor and meet the requirements of the Americans With Disabilities Act. These units can be int

ted so if one unit senses smoke, all units alarm Smoke alarms are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

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

SPECIAL COMPLIANCE CONSIDERATIONS

AWARNING! This Smoke Alarm alone is not a suitable substitute for complete fire detection systems in places housing many people—like apartment buildings, condominiums, hotels, motels, domitories, hospitals, long-term health 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 suitable substitute for complete fire detection systems in warehouses, industrial facilities, commerci substitute for complete ine detector systems in waterbooks, induction administry contained to buildings, and special-purpose non-residential buildings which require special fire detector and alarm systems. Depending on the building codes in your area, 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:

In new construction, most building codes require the use of AC or AC/DC powered Smoke Alarms only. AC, AC/DC, or DC powered Smoke Alarms can be used in existing construction as specified by local building codes. Refer to NFPA 72 (National Fire Alarm Code) and NFPA 101 (Life Safety Code), local building codes, or consult your Fire Department for detailed fire rotection requirements in buildings not defined as "households.

1. Single-Family Residence: Single family home, townhouse. It is recommended Smoke Alarms be installed on every level of the home, in every bedroom, and in each bedroom hallway. 2. Multi-Family or Mixed Occupant Residence: Apartment building, condominium. This Smoke Alarm is suitable for use in individual apartments or condos, provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, hallways, or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations. 3. Institutions: Hospitals, day care facilities, long-term health care facilities. This Smoke larm is suitable for use in indiv idual patient s is suitable for use in individual patient sleeping/resident rooms, provided a primary tion system already exists to meet fire detection requirements in common areas like obbies, hallways, or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulation 4. Hotels and Motels: Also boarding houses and domitories. This Smoke Alarm is suitable for use inside individual sleeping/resident rooms, provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, hallways, or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to all

LIMITATIONS OF SMOKE ALARMS

dents or meet local fire protection ordinances/regulation

Smoke Alarms have played a key role in reducing deaths resulting from home fires world-wide. 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 waken all individuals. Practice the escape plan at least twice a year, making sure that everyone is involved - from kids to grandparents. Allow children to naster fire escape planning and practice before holding a fire drill at night when they are leeping. If children or others do not readily waken to the sound of the smoke alarm, or if there are infants or family members with mobility limitations, make sure that someone is there are finance or failing memory memory memory memory in the second or and source to a second or a nay need assistance in the event of an emergency

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, if the wrong type of batteries are used, or if the batteries are not installed correctly. AC units cannot work if the AC power is cut off for any reason (open fuse or circuit breaker, failure along a power line or at a power station, electrica fire that burns the electrical wires, etc.). If you are concerned about the limitations of battery or AC power, install both types of units. sed, or if the

moke Alarms cannot detect fires if the smoke does not reach the Alarms. Smoke from fires in chimneys or walls, on roofs, 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 Smoke Alarms may not detect the on another hoor of area of the owening. For example a stand-alone unit on the second floor may not detect smoke from a basement fire until the fire spreads. 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, stand-alone units may not provide as much protection as interconnected units, especially if the fire starts in a remote area. Some safety experts recommend installing interconnected AC powered units with battery back-up (see "About 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 detects smoke.

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, 2) residents recently consumed alcohol or drugs, 3) the Alarm is drowned out by noise from stereo, TV, traffic, air conditioner or other appliances, 4) residents are hearin impaired or sound sleepers. Special purpose units, like those with visual and audible alarm should be installed for hearing impaired residents.

should be installed for hearing impaired residents. 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 foolproof Like any electronic devi Smoke Alarms are made of components that can wear out or fail at any time. You must test the unit weekly to enyour continued protection. Smoke Alarms cannot prevent or extinguish fires. They are not a ubstitute for property or life insurance

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. 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, this product will be free from defects in material and workmanship. BRK, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty. This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keen the original sales precisit. Proof of purchase is

urchase and is not transferable. Keep the original sales receipt. Proof of purchase is equired to obtain warranty performance. BRK dealers, service centers, or retail stores elling BRK products do not have the right to alter, modify or any way change the terms

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

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 gives you specific legal rights, and you may also have other rights that vary from state to state or province to province. How to Othain Warranty Sorvice

How to Obtain Warranty Service Service: If service is required, do not return the product to your retailer. In order to obtain arranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 AM 5:00 PM Central Standard Time, Monday through Friday. To assist us in serving you, ase have the model number and date of purchase available when calling For Warranty Service return to: BRK Brands, Inc., 25 Spur Drive. 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.

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