#### WIRELESS OPERATION

First Alert<sup>®</sup> ONELINK<sup>™</sup> Technology is the easy, cost-effective way to provide your family with whole-home safety. All ONELINK<sup>™</sup> Alarms communicate with each other without wires or connectors. When one Alarm sounds, they all sound. This provides your family with an earlier warning of potential danger, and gives you more time to react.

The distance between any two ONELINK™ Alarms is up to 100 feet (30.5 meters).

#### **IMPORTANT!**

- The range and proper operation of any wireless device will vary depending on its surroundings. It is very important that each Alarm is tested individually before and after installation to make
- sure that all Alarms respond properly. Metal objects and metallic wallpaper may interfere with signals from wireless Alarms. Alarms should be tested after changes to
- your home such as remodeling, moving furniture, and with metal doors opened and closed. Your First Alert® ONELINK™ Smoke Alarm will automatically communicate

potential fires with all other First Alert<sup>®</sup> ONELINK<sup>™</sup> Smoke Alarms. FCC NOTICE: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not

cause harmful interference, and (2) this device must accept any interference eived, including interference that may cause undesired operation. FCC ID: M7U52011

ACAUTION! Changes or modifications not expressly approved by BRK Brands, Inc. could void the user's authority to operate the equipment.

# **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.

#### 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 atte NEVER ignore any alarm. Ignoring the alarm may result in injury or
- Never disconnect the AC power to guiet an unwanted alarm. Disconnecting the power disables the Alarm so it cannot sense smoke. This will remove your protection. Instead, open a window or an the smoke away from the unit. 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.

When an interconnected system of AC powered units is in alarm, the alarm indicator light on the unit(s) that initiated the alarm will blink rapidly. It will remain OFF on any remaining units.

If the unit alarms, get everyone out of the dwelling immediately.

If the unit alarms and you are certain that the source of smoke is not a firecooking smoke or an extremely dusty furnace, for example—open a nearby window or door and fan the smoke away from the unit (Use the Silence Feature to silence the Alarm). This will silence the alarm, and once the smoke clears the unit will reset itself automatically.

#### WHAT TO DO IN CASE OF FIRE

- 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. **AWARNING!**

# Alarms have various limitations. See "Limitations of Smoke Alarms" for

#### USING THE SILENCE FEATURE

The Silence Feature can temporarily quiet an unwanted alarm for up to 15 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. 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 triggered the alarm. 2. Once you activate the Silence feature, the Red LED will flash approximately
- once every 10 seconds. 3. Pressing the Test/Silence button when in silence will restart the silence

#### **IMPORTANT!**

The Silence Feature on these units can temporarily quiet an unwanted alarm for up to 15 minutes. To use this feature, press the Test/Silence button on the cover. 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

#### IF YOU SUSPECT A PROBLEM

Smoke Alarms may not operate properly because of dead, missing or weak batteries (Model 7010B only), 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 button, or if the problem persists, replace the Smoke Alarm immediate

- If you hear a "chirp" approximately once a minute, replace the
- patteries.
- 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
- elocating 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

# 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.

5

#### **RECOMMENDED LOCATIONS** FOR SMOKE ALARMS

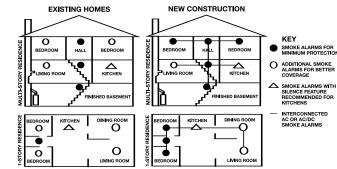
Installing Smoke Alarms in Single-Family Residences The National Fire Protection Association (NFPA), recommends one Smoke Alarm on every floor, in every sleeping area, and in every bedroom. In new construction, the Smoke Alarms must be AC powered and interconnected. See "Agency Placement Recommendations" for details. For additional coverage, it is recommended that you install a Smoke Alarm in all rooms, halls age, it is recommended utility of instant a offster value of the standard 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 long (12 meters), 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.



## **IMPORTANT!**

This equipment should be installed in accordance with NFPA (National Fire Protection Association) 72 and 101. National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. Additional local building and regulatory codes may apply in your area. Always check compliance requirements before beginning any installation. This model is not RV listed with Underwriters Laboratories Inc.

#### AGENCY PLACEMENT RECOMMENDATIONS

NFPA 72 (National Fire Code) Smoke Alarms shall be installed in each separate sleeping room, outside each sleeping area in the immediate vicinity of the bedrooms and on each additional story of the family living unit, including basements and excluding crawl spaces and unfinished attics.

new construction, Alarms shall be so arranged that operation of any one Alarm shall cause the operation of all Alarms within the dwelling.

Smoke Detection-Are More Smoke Alarms Desirable? The required number of Smoke Alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required Smoke Alarms. For this reason, it is recommended that the 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, attics (finished or unfinished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.

#### 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 ources of combustion particles (stove, furnace, water heater, space heater) if possible. In areas where a 20-foot distance is not possible nobile, 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 rea-sonable distance from a fuel-burning source, and thus reduce "unwanted" alarms. Unwanted alarms can occur if a Smoke Alarm is placed directly ext 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.
- 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

LIMITED WARRANTY

province to province.

with respect to battery.

How to Obtain Warranty Service

the terms and conditions of this warranty.

"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 in from the wall/ceiling line, below typical "dead air" spaces.

On a peaked, gabled, or cathedral ceiling, 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 fo sloped or peaked ceilings.

product of equal or greater value. This is your exclusive warranty.

#### ABOUT SMOKE ALARMS

Battery (DC) operated Smoke Alarms: Provide protection even when elect tricity fails, provided the batteries are fresh and correctly installed. Units are easy to install, and do not require professional installation.

AC powered Smoke Alarms: Can be interconnected so if one unit senses oke, 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.

ONELINK<sup>™</sup> Smoke Alarms with battery (DC) back-up: Interconnects with all ONELINK<sup>™</sup> enabled Smoke and Smoke/CO Alarms without wires or con-nectors, so when one alarm sounds, they all sound. Will operate if electricity fails, provided the batteries are fresh and correctly installed. Units are easy to nstall, and do not require professional installation

Smoke Alarms for Solar or Wind Energy users and battery backup power systems: AC powered Smoke Alarms should only be operated with true of pure sine wave inverters. Operating this Smoke Alarm with most batterypowered 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 impared. They include a visual alarm and an audible alarm horn, and meet the requirements of the Americans With Disabilities Act. These units can be interconnected so if one unit senses smoke, all units alarm.

## Smoke alarms are not to be used with detector guards unless the combination has 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 ire 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 n new construction or in different areas of the home

## **SPECIAL COMPLIANCE CONSIDERATIONS**

**AWARNING!** This Smoke Alarm alone is not a suitable substitute for complete fir detection systems in places housing many people—like apartment buildings, condominiums, hotels, motels, dormitories, hospitals, lor erm health care facilities, nursing homes, day care facilities, or gro 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, ndustrial facilities, commercial buildings, and special-purpose non-resi dential buildings which require special fire detection and alarm systems nding 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 protection 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 Alarm is suitable for use in individual patient sleeping/resident rooms, provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies. hallwavs. or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations. 4. Hotels and Motels: Also boarding houses and dormitories. 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 residents or meet local fire protection ordinances/regulations.

#### LIMITATIONS OF SMOKE ALARMS

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

Smoke alarms may not waken all individuals. Practice the escape plan at east twice a year, making sure that everyone is involved – from kids to grandparents. Allow children to master fire escape planning and practice before holding a fire drill at night when they are sleeping. If children or others do not readily waken to the sound of the smoke alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to sist them in fire drill and in the event of an emergency. It is recon that you hold a fire drill while family members are sleeping in order to deter mine their response to the sound of the smoke alarm while sleeping and to determine whether they may need assistance in the event of an emergency.

Smoke Alarms cannot work without power. Battery operated units cannot work if the batteries are missing, disconnected or dead, 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, electrical fire that burns the electrical wires, etc.). If you are concerned about the limitations of battery or AC power, install both types of units.

Smoke Alarms cannot detect fires if the smoke does not reach the Alarms. Smoke from fires in chimneys or 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 ecially if bedroom or sleeping area doors are closed at night-and in the hallway between them

dwelling. For example, a stand-alone unit on the second floor may not detect

nough time to escape safely. That is why recommended minimum protection

provide as much protection as interconnected units, especially if the fire starts

n a remote area. Some safety experts recommend installing interconnected

s at least one unit in every sleeping area, and every bedroom on every level

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

smoke from a basement fire until the fire spreads. This may not give you

of your dwelling. Even with a unit on every floor, stand-alone units may not

professional fire detection systems, so if one unit senses smoke, all units

larm. Interconnected units may provide earlier warning than stand-alone

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

) the Alarm is drowned out by noise from stereo, TV, traffic, air conditioner or

purpose units, like those with visual and audible alarms, should be installed for

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

are made of components that can wear out or fail at any time. You must test the

unit weekly to ensure your continued protection. Smoke Alarms cannot prevent or extinguish fires. They are not a substitute for property or life insurance.

10 years from date of purchase. Write the purchase date on the space provided

Smoke Alarms have a limited life. The unit should be replaced immediately

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other appliances, 4) residents are hearing impaired or sound sleepers. Special

Smoke Alarms may not have time to alarm before the fire itself causes

Smoke Alarms are not foolproof. Like any electronic device, Smoke Alarms

AC powered units with battery back-up (see "About Smoke Alarms") of

units since all units alarm when one detects smoke.

earing impaired residents.

from escaping gas.

on back of unit.

BRK Brands, Inc., ("BRK") the maker of First Alert® brand and 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 simila

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is

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

provinces or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or

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

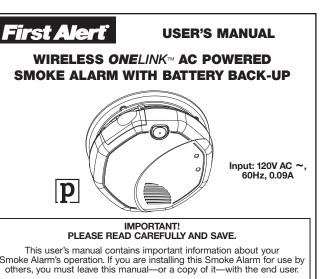
applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states

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 1-800-323-9005, 7:30 AM - 5:00 PM Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling. 303 Nelson Avenue, Neosho, MO 64850-8806.

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

does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

btain warranty performance. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change



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#### All First Alert<sup>®</sup> and BRK<sup>®</sup> 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

Model SA520

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 kitcher

- Photoelectric technology is generally more sensitive than ionization technology at detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may 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 n 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 moke 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 hearing impaired residents.

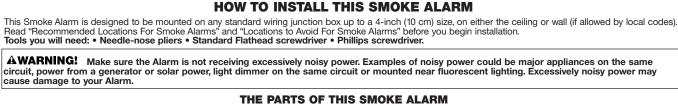
- Installation of this unit must conform to the electrical codes in your area; Article 760 of NFPA 70 (NEC), NFPA 72, NFPA 101; SBC (SBCCI): UBC (ICBO): NBC (BOCA); OTFDC (CABO), and any othe ocal or building codes that may apply. Wiring and insta ation must be performed by a licensed electrician. Failure to follow these juidelines may result in injury or property dam
- This unit must be powered by a 24-hour, 120VAC pure sine wave 60Hz circuit. Be sure the circuit cannot be turned off by a switc dimmer, or ground fault circuit interrupter. Failure to connect this unit to a 24-hour circuit may prevent it from providing constant
- 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 at least 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

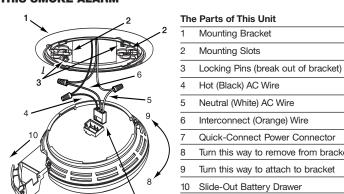
#### ACAUTION!

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. This Smoke Alarm has a battery drawer which resists closing unless a battery is installed. This warns you the unit will not operate under DC power without a battery. Do not stand too close to the unit when the alarm is sounding.

It is loud to wake you in an emergency. Exposure to the horn at close range may harm your hearing. Do not paint over the unit. Paint may clog the openings to the

sensing chambers and prevent the unit from operating properly.





# Neutral (White) AC Wire

Interconnect (Orange) Wire Quick-Connect Power Connector Turn this way to remove from bracket

Turn this way to attach to bracket

0 Slide-Out Battery Drawer

#### INSTALLATION STEPS, Continued

- STAND-ALONE ALARM ONLY If you are only installing one Smoke Alarm, restore power to the
- 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,

#### **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.

- 6. Make sure the Smoke Alarm is receiving AC power. Under normal operation, the Green power indicator light will shine continuously. If the Green power indicator light does not light, TURN OFF POWER
- TO THE JUNCTION BOX and recheck all connections. If all connection are correct and the Green power indicator still does not light when you restore the power, the unit should be replaced immediately. 8. Test each Smoke Alarm. Press and hold the Test/Silence button until the
- unit alarms. When testing a series of interconnected units you must test each unit individually. Make sure all units alarm when each one

#### **ADANGER!**

If any unit in the series does not alarm. **TURN OFF POWER** and recheck onnections. If it does not alarm when you restore power, replace immediately.

## Special Requirements For Interconnected Smoke Alarms

- **AWARNING!** · Failure to meet any of the above requirements could damage the
- units and cause them to malfunction, removing your prote • 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 sen and receive signals. AC powered Smoke Alarms will not operate

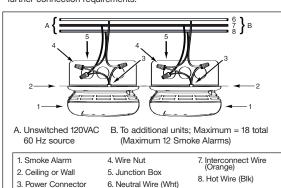
Interconnected units can provide earlier warning of fire than stand-alone units. especially if a fire starts in a remote area of the dwelling. If any unit in the series senses smoke, all units will alarm. To determine which Smoke Alarm initiated an alarm, see table:

On Initiating Alarms Red LED flashes rapidly On All Other Alarms Red LED is Off

#### IMPORTANT!

Interconnect units within a single family residence only. Otherwise all house holds will experience unwanted alarms when you test any unit in the series Interconnected units will only work if they are wired to compatible units and all requirements are met. This unit is designed to be compatible with: *First Alert*<sup>®</sup> Smoke Alarm Models SA4120, SA4121B, SA100B, 9120 series and BRK Electronics® Smoke Alarm Models 100S. 4120 series. 9120 series 010 series; BRK Electronics<sup>®</sup> Heat Alarm Models HD6135F, HD6135FB; Smoke/CO Alarm Model SC6120B; Relay Modules RM3 and RM4. 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). The interconnect wire should be #18 gauge o larger, rated at least 300V. If an interconnect wire is not already part of your household wiring, you will need to install one. This type of wire is commonly available at Hardware and Electrical Supply stores.
- All wiring must conform to all local electrical codes and Article 760 of NFP4 70 (NEC). Refer to NFPA 72, NFPA 101, and/or your local building code for further connection requirements.



# Locking Features, Continued

# TO LOCK THE MOUNTING BRACKET



- 2. Insert the locking pin into the lock located opposite from the battery drawer as shown in the diagram.
- 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,

# **ADANGER!**

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/Silence button for 5-10 seconds to discharge the branch circuit branch circuit. 1. Remove the Smoke Alarm from the mounting

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

bracket. If the unit is locked to the bracket, see the section "To Unlock the Mounting Bracket."

TO UNLOCK THE BATTERY COMPARTMENT

**IMPORTANT!** 

**ADANGER!** 

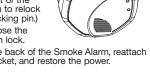
injury or death.

**AWARNING!** 

- 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.

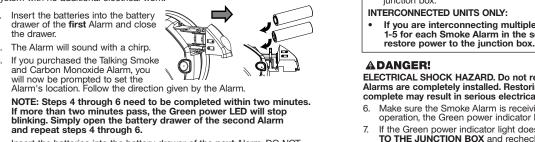
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±0-

iniury or death.

**AWARNING!** 



and repeat steps 4 through 6. Insert the batteries into the battery drawer of the next Alarm. DO NOT CLOSE THE DRAWEF

QUICK INSTALLATION INSTRUCTIONS

Easily expand an existing interconnected 120V AC hardwired system b

simply replacing one Alarm in the series with the First Alert<sup>®</sup> ONELINK<sup>™</sup> Model SA520. Then add additional battery-operated Alarms to expand the

- Press and hold the test button and then close the battery drawer.
- Once you hear the unit chirp, release the test button. The Green power LED will start to blink indicating the ONELINK<sup>™</sup> Alarm is waiting for program data from one of the other setup ONELINK<sup>™</sup> Alarms.
- Press and hold the test button on the first Alarm until the second Alarm
- hirps and its Green power LED stops blinking. Then release the test button. If you purchased the Talking Smoke and Carbon Monoxide Alarm, you
- will now be prompted to set the Alarm's location. Follow the directions given by the Alarm.
- 9. If you have purchased the hardwired battery back-up ONELINK™ Alarm, you can now connect the hardwired Alarm by installing the three-wire connector on the ceiling to the Alarm.
- 10. Repeat steps 4-9 for additional ONELINK<sup>™</sup> Alarms
- You have now successfully linked your new ONELINK™ Alarms. To add additional Alarms at a later time, follow steps 4 through 9.

#### FOLLOW THESE INSTALLATION STEPS

The basic installation of this Smoke Alarm is similar whether you want to nstall one Smoke Alarm, or interconnect more than one Smoke Alarm. If you are interconnecting more than one Smoke Alarm, you MUST read "Special equirements For Interconnected Smoke Alarms" below before you begin installation.

#### **ADANGER!**

The Mounting Bracket:

The Power Connector:

• The black wire is "hot."

and pull the connector free.

system with no additional electrical work.

If you purchased the Talking Smoke

and Carbon Monoxide Alarm, you

• The white wire is neutral.

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.

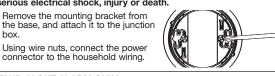
The power connector plugs into a power input block on the Smoke Alarm. It supplies the unit with AC power.

• The orange wire is used for interconnect.

If you need to remove the power connector, turn POWER OFF first. Insert a flat screwdriver blade

between the power input block. Gently pry back the tab

ELECTRICAL SHOCK HAZARD. Turn off power to the area where you will install this unit at the circuit breaker or fuse box before begin stallation. Failure to turn off the power before installation main in serious electrical shock, injury or death.



Continued above.

These Smoke Alarms have two separate locking features: one to lock the battery compartment, and the other to lock the Smoke Alarn

Both locking features use locking pins, which are molded into the mounting bracket. Using needle-nose pliers, remove one or both pins

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

**OPTIONAL LOCKING FEATURES** 

The locking features are designed to discourage unauthorized removal of the battery or Alarm. It is not necessary to activate the locks in single-family

- STAND-ALONE ALARM ONLY: Connect the white wire on the power connector to the neutral wire in
- the junction box.

Remove the mounting bracket from

Using wire nuts, connect the power

connector to the household wiring.

- 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:

Check all connections.

non-functioning Alarm.

**IMPORTANT!** 

**IMPORTANT!** 

**AWARNING!** 

- 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.

Alarm clockwise (right) until the unit is in place.

TO LOCK THE BATTERY COMPARTMENT

Alarm still does not alarm, replace it immediately.

3 beeps, pause, 3 beeps, pause.

back of the Smoke Alarm

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

If the unit does not alarm during testing, DO NOT lock the battery

ment! Install a new battery and test again. If the Smoke

Using needle-nose pliers, detach one locking pin from the mounting

Push the locking pin through the hole near the battery drawer on the

Push and hold Test/Silence button until the alarm sounds:

Plug the power connector into the back of the Smoke Alarm Position the base of the Smoke Alarm over the mounting bracket and turn

Improper wiring of the power connector or the wiring leading to the

wer connector will cause damage to the Alarm and may lead to a

ouseholds where unauthorized battery or Alarm removal is not a concern

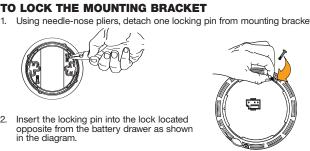
from the mounting bracket, depending on how many locking features you want to use.

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

to the mounting bracket. You can choose to use either feature independently, or use them both.

The Alarm can be positioned over the bracket every 90°. Turn the Smoke

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 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, 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/Silence button for 5-10 seconds to charge the branch circuit 1. Insert a flathead screwdriver between the nounting bracket pin and the mounting bracke 2. Pry the Smoke Alarm away from the bracket by turning both the screwdriver and the Smoke Alarm counterclockwise (left) at the same time. 4



4. Close the battery compartment, and then test the unit by pressing the Test/Silence

they snap completely into the battery compartment. Match the terminals on the ends of the batteries with the terminals on

1. Open the battery compartment. 2. Press tabs A and B as shown in the diagram and remove each battery. 3. Insert the new batteries, making sure

To replace the batteries (without removing Alarm from the ceiling ZAB

ed battery life, you MUST replace the battery immediately once the unit starts "chirping" (the "low battery warning").

are available at many local retail stores. 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 suggest

Choosing a replacement battery: Your Smoke Alarm requires 2 "AA" Energizer E91 batteries. These batteries

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 batteries immediately to continue your

• If the Smoke Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be cleaned to avoid unwanted alarms, replace the • Relocate the unit if it sounds frequent unwanted alarms. See "Locations

 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.

are a few simple things you must do to keep it working properly: • Test it at least once a week.

This unit has been designed to be as maintenance-free as possible, but there

since they may not provide a constant charge

operate properly with other batteries. Never use rechargeable batteries

Use only the replacement batteries listed below. The unit may not

#### **REGULAR MAINTENANCE**

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

e 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,

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

DO NOT stand close to the Alarm when the horn is sounding. Exposure close range may be harmful to your hearing. When testing, step away when horn starts sounding.

If the Alarm ever fails to test properly, replace it immediately. Products under warranty may be returned to the manufacturer for replacement. See "Limited Warranty" at the end of this manual.

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 builtin test switch accurately tests the unit's operation as required by erwriters Laboratories, Inc. (UL).

All Models Green LED Off Constant Green LED Flashing Red LED Flashing Green LED approx. once/minute approx. once/minute No Audible Alarm No Audible Alarm Constant Green LED Green LED Off Rapidly Flashing Rapidly Flashing Red LÉD Red LÉD Audible Alarm Audible Alarm Constant Green LED Green LED Of Rapidly Flashing Rapidly Flashing Red LED Red LÉD Audible Alarm Audible Alarm Rapidly Flashing Red LED Rapidly Flashing Red LED Not Applicable Alarm "chirp" approx once/minute NOTE: When power is applied, unit(s) may alarm momentarily.

DC Power

AC Power

\*When any Smoke Alarm in an interconnected series triggers an alarm, its red LED will flash rapidly. The red LEDs will remain OFF on any remaining

alarms in the series. This feature helps responders identify which unit(s)

Normal Operation

Test Condition

Alarm Conditio

nitiating Unit)

Silence Mode

Low Battery

triggered the alarm.

WEEKLY TESTING

**AWARNING!** 

ACAUTION!

AWARNING!

unit immediately

**IMPORTANT!**