




USER'S MANUAL
WIRELESS INTERCONNECT BATTERY OPERATED SMOKE ALARM



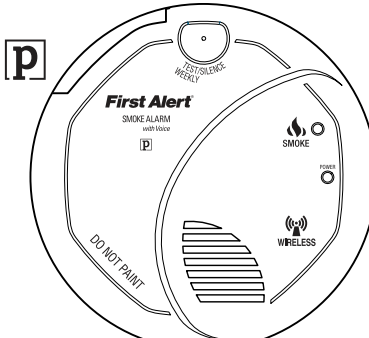
Features:
 WIRELESS INTERCONNECT Enabled
 Voice with Programmable Location
 Two Latching Features
 Optipath 360 Technology™
 Two Silence Features

Exclusive!
With Location!

CONFORMS TO
UL STD 217
 Model SA511

Printed in Mexico
 M08-0194-005 Q 09/14



STEP BY STEP GUIDE TO PROGRAMMING THIS ALARM

FOR FIRST TIME AND WHEN CHANGING BATTERIES

| | |
|---|--|
| Action: 1. Insert batteries (2, AA batteries). | Alarm Will Say: "Welcome, First Alert Smoke Alarm." "No location programmed" if first time or "ILocation, example: 'Basement'" location programmed" when changing batteries. "To select location, press and hold test button now." |
| 2. Press & Hold Test Button if you would like to program the location or change the location of the Alarm. Release button after Alarm responds. | "To save location, press and hold test button after location is heard." Alarm will speak list of locations (see below). |
| 3. After you hear the location of where you are placing the Alarm, Press & Hold the Test Button. | "Location, example: 'Basement'" location saved." If no location is chosen: "No location saved." |

Your Alarm has now been programmed for the location of your choice. Available locations:
 Basement Kitchen Child's Bedroom
 Living Room Dining Room Master Bedroom
 Family Room No Location Guest Bedroom
 Office Hallway Utility Room

ADDING AND LINKING ADDITIONAL WIRELESS INTERCONNECT ALARMS

NOTE: Steps 1 through 3 below need to be completed within two minutes. If more than two minutes pass, the Green power LED will stop blinking. Simply open the battery drawer of the second Alarm and repeat steps 1 through 3.

1. Insert the batteries into the battery drawer of the next Alarm.
2. Press and hold the Test Button. The LED will start to blink indicating the WIRELESS INTERCONNECT Alarm is waiting for program data from one of the other setup WIRELESS INTERCONNECT Alarms.
3. Once you hear the unit chirp, release the test button. The Green power LED will continue to flash rapidly while in silence.
4. Press and hold the test button on the first Alarm, until the second Alarm chirps and its Green power LED stops blinking. Then release the test button.
5. If you purchased a Talking Smoke Alarm, you will now be prompted to set the Alarm's location. Follow the directions given by the Alarm.
6. If you have purchased the hardwired battery back-up WIRELESS INTERCONNECT Alarm, you can now connect the hardwired Alarm by installing the three-wire connector on the ceiling to the Alarm.
7. Repeat steps 1-6 for additional WIRELESS INTERCONNECT Alarms.

You have now successfully linked your new WIRELESS INTERCONNECT Alarms. To add additional Alarms at a later time, follow steps 1 through 3.

WHAT YOU WILL SEE AND HEAR WITH THIS ALARM

Under Normal Operations
Voice: Silent
Horn: Silent
Power LED: Flashes Green once/minute

When You Test the Alarm
Voice: "Testing." **Horn:** 3 beeps, pause, 3 beeps; **Voice:** "Warning, evacuate smoke in [Location, example: 'Basement']. Evacuate."
Smoke LED: Flashes Red in sync with the horn pattern

If Battery Becomes Low
Voice: "Replace battery in [Location, example: 'Basement']."
Horn: chirps once a minute
Power LED: Flashes Green On for 2 seconds/Off for 2 seconds. Low Battery Latch is now engaged.

If Alarm is Not Operating Properly (MALFUNCTION SIGNAL)
Voice: "Detector error in [Location, example: 'Basement']." please see manual for "Regular Maintenance" and "Weekly Testing" instructions.
Horn: Three rapid chirps every minute
Smoke LED: Flashes approximately once a minute

Smoke is Detected
Horn: 3 beeps, pause, repeating 3 times
Voice: "Warning, evacuate smoke in [Location, example: 'Basement']. Evacuate."
Smoke LED: During Alarm: Flashes Red in sync with the horn pattern. After Alarm: Flashes Red On for 2 seconds/Off for 2 seconds. Smoke Alarm Latch is now engaged.

Smoke Alarm is Silenced
Horn: Off
Smoke LED: Flashes Red

WIRELESS OPERATION
 First Alert™ WIRELESS INTERCONNECT Technology is the easy, cost-effective way to provide your family with whole-home safety. All WIRELESS INTERCONNECT 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 with the communication distance (range) between any two WIRELESS INTERCONNECT Alarms is typically 50 feet (15 meters) inside of a home. Some features of a home, such as the number of floors, number/size of rooms, furniture and types of building materials used may reduce the range of the Alarms. Examples include: suspended ceilings, ductwork, large metallic appliances (refrigerators) and metal studs. A feature of WIRELESS INTERCONNECT Alarms is that they operate as a mesh network. All Alarms will repeat any alarm signal that is received to all other WIRELESS INTERCONNECT Alarms. Interference from structural conditions can be overcome by adding additional Alarms to route the wireless signal around obstructions.

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.
 • The WIRELESS INTERCONNECT Alarms are not to be used outdoors or to transmit between buildings. The Alarms will not communicate properly under these conditions.
 • 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 closed.

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 on the second floor 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.

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

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

INTRODUCTION
 Thank you for choosing First Alert for your Smoke Alarm needs. You have purchased a state-of-the-art Smoke Alarm designed to provide you with early warning of a fire. **Key features include:**

WIRELESS INTERCONNECT Enabled. Alarm automatically communicates with other WIRELESS INTERCONNECT enabled alarms when installed.

Exclusive Voice Warning with Location will tell you the preprogrammed location of the initiating unit and danger detected. Programmable up to 11 locations (ex. "basement"). When alarms sound, if programmed for basement it will say "Warning, evacuate, smoke in basement" along with all other installed WIRELESS INTERCONNECT Voice alarms.

Spread Spectrum Horn Tone. Lower and varying horn frequency makes it easier for elderly with normal age related hearing loss to hear horn. Sweeps through the 2200 – 3400 Hz range.

RF Interconnect. Reliable and secure radio frequency communication allows a 915MHz frequency with 65,000 security codes and 3 channel frequency hopping.

Optipath 360 Technology™ provides 360 degrees of direct access to the smoke sensor.

Single Button Test/Silence eliminates confusion. Depending on what mode you are in, the button provides different functions. Press and hold to test, testing the alarm, silencing the alarm, re-testing the alarm when in silence and clearing the Latching Features.

Two Silence Features. Temporally silence low battery chirp for up to eight minutes replacing low battery or silence an unwanted alarm for several minutes.

Two Latching Features. Alarm Latch: Easily identifies initiating alarm even after alarm condition has subsided. Low Battery Latch: Identifies which unit is in low battery condition.

Perfect Mount System includes a gasketless base for easy installation and a mounting bracket that keeps the alarm secure over a wide rotation range to allow for perfect alignment.

All First Alert® Smoke Alarms conform to regulatory requirements, including UL217 and are designed to detect particles of combustion. Manufactured by BRK Brands, Inc. 3901 Libby Street Road, Aurora, IL 60504-8122 Consumer Affairs: (800) 323-9005 • www.firstalert.com

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

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

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

Understand The Different Type of Smoke Alarms
 Battery powered or electrical? Different Smoke Alarms provide different types of protection. See "About Smoke Alarms" for details.

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WARNING!
 • This unit will not alert hearing impaired residents. It is recommended that you install special units which use devices like flashing strobe lights to alert hearing impaired residents.
 • Unit will not operate without battery power. The Smoke Alarm cannot work until you install the batteries in the correct position (Match "+" to "+" and "-" to "-").
 • This Smoke Alarm has a battery drawer which resists closing unless batteries are installed.

CAUTION!
 • Do not install this unit over an electrical junction box. Air currents around junction boxes can prevent smoke from reaching the sensing chamber and prevent the unit from alarming. Only AC powered units are intended for installation over junction boxes.
 • 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 point over the unit. Paint may clog the openings to the sensing chamber and prevent the unit from operating properly.

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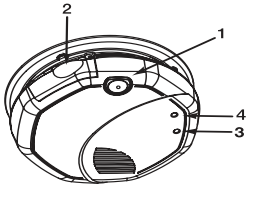
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HOW TO INSTALL THIS SMOKE ALARM

FOLLOW THESE SIMPLE STEPS!

1. Hold base firmly and twist the mounting bracket counterclockwise to separate it from the base.
2. Hold the mounting bracket against the ceiling (or wall) so the vertical mounting slot is aligned in the 12 o'clock position and trace around the inside of the mounting slots (vertical and horizontal mounting).
3. Put the unit where it won't get covered with dust when you drill the mounting holes.
4. Using a 3/16" (5 mm) drill bit, drill a hole through the center of the oval outlines you traced.
5. Insert the plastic screw anchors (in the plastic bag with screws) into the holes. Tap the screw anchors gently with a hammer, if necessary, until they are flush with the ceiling or wall.
6. Line the mounting bracket up over the plastic screw anchors.
7. Screw the mounting bracket to the ceiling or wall through the mounting slots using the two screws provided.
8. Attach the Smoke Alarm to the mounting bracket. Line up the guides on the alarm's base with the guides on the mounting bracket. When guides are lined up, turn the base clockwise (right) until it snaps into place.
9. Test the Smoke Alarm. See "Weekly Testing."



THE PARTS OF THIS SMOKE ALARM

1. Test/Silence button
2. Battery drawer
3. Power indicator LED
4. Smoke Alarm LED

TOOLS YOU WILL NEED:
 This unit is designed to be mounted on the ceiling, or on the wall if necessary.

- Pencil
- Drill with 3/16" (5 mm) drill bit
- Phillips screwdriver
- Hammer
- Pliers to activate optional "tamper-resistant" locking features

IMPORTANT!
 If you want to lock the battery drawer, or lock the Smoke Alarm to the mounting bracket, please read the "Optional Locking Features" section before you begin installation.

OPTIONAL LOCKING FEATURES

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

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

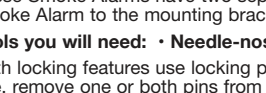
Tools you will need: • Needle-nose pliers • Standard flathead screwdriver.

Both locking features use locking pins, which are molded into the mounting bracket. Depending on which locking features you use, remove one or both pins from the mounting bracket using needle-nose pliers.

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

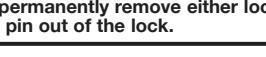
TO LOCK THE BATTERY COMPARTMENT
 Do not lock the battery compartment until you install the batteries and test the Smoke Alarm.

IMPORTANT!
 If the unit does not alarm during testing, DO NOT lock the battery compartment. Replace the batteries as soon as possible. Install new batteries and test again. If the Smoke Alarm still does not alarm, replace it immediately.



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TO UNLOCK THE BATTERY COMPARTMENT

1. Remove the Smoke Alarm from the mounting bracket. If the unit is locked to the bracket, see the section "To Unlock the Mounting Bracket."
2. Insert a flathead screwdriver under the head of the locking pin. Use the screwdriver to cut out of the battery compartment lock. (If you plan to relock the battery compartment, save the locking pin.)
3. To relock the battery compartment, close the battery door and reinsert locking pin in lock.
4. Reattach the Smoke Alarm to the mounting bracket.

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



TO LOCK THE MOUNTING BRACKET

1. Using needle-nose pliers, detach one locking pin from the mounting bracket.
2. After batteries are inserted, then push the locking pin through the hole near the battery door latch on the back of the Smoke Alarm.



TO UNLOCK THE MOUNTING BRACKET

1. Insert a flathead screwdriver into the rectangular cut-out on the mounting bracket nearest to the locking pin.
2. Pry the Smoke Alarm away from the bracket by pushing up on the screwdriver and turning the Smoke Alarm counterclockwise (left) at the same time.



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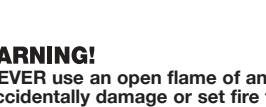
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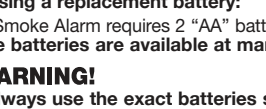
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IF THIS SMOKE ALARM SOUNDS RESPONDING TO AN ALARM

During an alarm, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause. The red LED will flash rapidly.

WARNING!
 • If the unit beeps 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 remove the batteries from a battery operated Smoke Alarm to stop an unwanted alarm (caused by cooking smoke, etc.). Removing batteries disables the alarm so it cannot sense smoke, and removes your protection, instead open a window or fan the smoke away from the unit. The alarm will reset automatically.
 • If the unit alarms get everyone out of the house immediately.

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 phone number.
- Never go back inside a burning building for any reason.
- Contact your Fire Department for ideas on making your home safer.

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

USING THE SILENCE FEATURE
 The Silence Feature can temporarily quiet an unwanted alarm for up to 15 minutes. To use this feature, press the "Push to 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. The LED will continue to flash rapidly while in silence.

WARNING!
 The Silence Feature does not disable the unit—it makes it temporarily less sensitive to smoke. For your safety, if smoke around the unit is dense enough to suggest a potentially dangerous situation, the unit will stay in alarm or may re-alarm quickly. If you do not know the source of the smoke, do not assume it is an unwanted alarm. Not responding to an alarm can result in property loss, injury, or death.

SILENCING THE LOW BATTERY WARNING
 This silence feature can temporarily quiet the low battery warning "chirp" for up to 8 hours. You can silence the low battery warning "chirp" by pressing the Test/Silence button on the alarm's silence feature. The unit continues to flash the Green light twice a minute for 8 hours. After 8 hours, the low battery warning will resume. Replace the batteries as soon as possible; this unit will not operate without battery power!

TO deactivate this feature: Press the Test/Silence button again. The unit will go into Test Mode and the low battery warning will return (LED flashes and unit sounds "chirp" once a minute).

LATCHING FEATURES
Alarm Latch is activated after an Alarm is exposed to alarm levels of smoke. After smoke levels drop below alarm levels, the "Smoke" Red LED will begin to blink. On for 2 seconds/Off for 2 seconds. It will continue to flash or "latch" for about 15 minutes, to give you time to determine which unit initiated the alarm.

Low Battery Latch is activated when the Alarm is in the "low battery condition". When this occurs, the Power LED flashes Green On for 2 seconds/Off for 2 seconds for about 15 minutes. This feature is designed to help you identify which Alarm needs to have the battery replaced. Although, the Alarm will sound the low battery chirp approximately once every minute, sometimes during the initial stages of "low battery". The Alarm will chirp in greater intervals than one minute, sometimes up to several hours, until the battery reaches a steady low battery level. This innovative feature eliminates the frustration of waiting for and/or identifying which unit is chirping.

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

AC powered Smoke Alarms: Can be interconnected so if one unit senses smoke, all units alarm. They do not operate if electricity fails.
AC with battery (DC) back-up: will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician.

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For wall mounting (if allowed by building codes), the top edge of Smoke Alarms should be placed between 4 and 12 inches (102 and 305 mm) from the wall/ceiling line, below the ceiling. See "Agency Placement Recommendations" for details.

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