FIRST ALERT
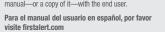
USER'S MANUAL

SMOKE ALARM
AC POWERED WITH 10-YEAR BATTERY BACKUP

Model SMI105-AC

IMPORTANT! PLEASE READ CAREFULLY AND SAVE.

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

Para el manual del usuario en español, por favor visite firstalert.com

⚠ DANGER!
ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Smoke Alarm is installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or death.

⚠ DANGER!
- This unit will not alert hearing impaired residents. It is recommended that you install special units which use devices like flashing strobe lights to alert hearing impaired residents.
- Installation of this unit must conform to the electrical codes in your area; Articles 210 and 300.3 (B) of NFPA 70 (NEC), NFPA 72, NFPA 101; ICC; SBC (SBCCI); UBC (ICBO); NBC (BOCA); OTFDC (CABO), and any other local or building codes that may apply. Wiring and installation must be performed by a licensed electrician. Failure to follow these guidelines may result in injury or property damage.
- This unit must be powered by a 24-hour, 120V AC pure sine wave 60 Hz circuit. Be sure the circuit cannot be turned off by a switch, dimmer, or ground fault circuit interrupter. Failure to connect this unit to a 24-hour circuit may prevent it from providing constant protection. Unit may be connected to an arc fault circuit interrupter.
- This Smoke Alarm must have AC or battery power to operate. If the AC power fails, battery back-up will allow the Alarm to sound for at least 4 minutes. If AC power fails and the battery is weak, protection should last for up to 7 days. If AC power fails and the battery is dead or missing, the Alarm cannot operate.
- Never disconnect the power from an AC powered unit to stop an unwanted Alarm. Doing so will disable the unit and remove your protection. In the case of a true unwanted Alarm open a window or fan the smoke away from the unit. The Alarm will reset automatically when it returns to normal operation.
- Never remove the batteries from a battery operated unit to stop an unwanted Alarm (caused by cooking smoke, etc.). Instead open a window or fan the smoke away from the unit. The Alarm will reset automatically.

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

01 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. Please take the time to read this manual and make the Smoke Alarm an integral part of your family's safety plan.

BASIC SAFETY INFORMATION
IMPORTANT!
- Dangers, Warnings, and Cautions alert you to important operating instructions or to potentially hazardous situations. Pay special attention to these items.
- This Smoke Alarm is approved for use in single-family residences. It is **NOT** designed for marine or RV use.

⚠ CAUTION!
- The Smoke Alarm will only indicate the presence of smoke that reaches the sensor.
- The Smoke Alarm is not designed to sense gas, heat or flames.

⚠ WARNING!
- This Smoke Alarm cannot operate without working batteries. Removing the batteries for any reason, removes your protection.
- **NEVER** ignore any Alarm. See "If Your Smoke Alarm Sounds" for more information on how to respond to an Alarm.
- The Silence Features are for your convenience only and will not correct a problem. See "Using the Silence Features" for details. Always check your home for a potential problem after any Alarm. Failure to do so can result in injury or death.
- Test this Smoke Alarm once a week. If the Alarm ever fails to test correctly, have it replaced immediately! If the Alarm is not working properly, it cannot alert you to a problem.

02 ABOUT SMOKE ALARMS

TYPES OF ALARMS
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 Smoke Alarm to install, refer the National Fire Protection Association (NFPA) Standard 72 (National Fire Alarm and Signaling 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.

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. They do not, however, provide interconnected functionality.

AC powered Smoke Alarms: Can be interconnected so if one unit senses smoke, all units Alarm. They do not operate if electricity fails.

AC with battery (DC) back-up: will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician.

Wireless Interconnected Alarms: Offer the same interconnected functionality as with hardwired Alarms, without wires. Units are easy to install and do not require professional installation. They provide protection even when electricity fails, provided the batteries are fresh and correctly installed.

Smoke Alarms for solar or wind energy users and battery backup power systems: AC powered Smoke Alarms should only be operated with true or pure sine wave inverters. Operating this Smoke Alarm with most batteryppowered 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 horn, and meet the requirements of the Americans With Disabilities Act. These units can be interconnected to one or more 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 First Alert® Smoke Alarms conform to regulatory requirements, including UL217 and are designed to detect particles of combustion. Smoke particles of varying number and size are produced in all fires.

Ionization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a wastebasket, or a grease fire in the kitchen.

Photoelectric technology is generally more ×sensitive than ionization technology at detecting large particles, which tend to be produced in greater amounts by 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.

03 INSTALLATION

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.

WHERE TO INSTALL THIS ALARM
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 (4.4° C) and 100° F (37.8° C). Make sure no door or other obstruction could keep smoke from reaching the Smoke Alarm.

IN GENERAL, INSTALL SMOKE ALARMS:
- On every level of your home, including finished attics and basements.
- Inside every bedroom, especially if people sleep with doors closed.

- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is over 40 feet (12 meters) long, install an Alarm at each end.
- At the top of the first-to-second level stairway, and at bottom of 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.**

RECOMMENDED PLACEMENT:

Smoke Alarm
One on every level and in every bedroom

Carbon Monoxide Alarm
One on every level and in every bedroom

Fire Extinguisher
One on every level, plus kitchen and garage

- When installing on the wall, the top edge of Smoke Alarms should be placed between 4 inches (102 mm) and 12 inches (305 mm) from the wall/ceiling line.
- When installing on the ceiling, place the Alarm as close to the center as possible.
- In either case, install at least 4 inches (102 mm) from where the wall and ceiling meet.

NOTE: For any location, make sure no door or other obstruction could keep carbon monoxide or smoke from reaching the Alarm.

WHERE NOT TO INSTALL THIS ALARM
FOR BEST PERFORMANCE, IT IS RECOMMENDED YOU 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 module, mobile, or smaller homes, for example – it is recommended the Smoke Alarm be placed as far from these fuel-burning sources as possible. The placement recommendations are intended to keep these Alarms at a reasonable distance from a fuel-burning source, and thus reduce "unwanted" Alarms. Unwanted Alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning source. Ventilate these areas as much as possible.
- In air streams near kitchens. Air currents can draw cooking smoke into the sensing chamber of a Smoke Alarm near the kitchen.
- In very damp, humid or steamy areas, or directly near bathrooms with showers. Keep units at least 10 feet (3 meters) away from showers, saunas, dishwashers, etc.
- Where the temperatures are regularly below 40° F (4.4° C) or above 100° F (37.8° 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.

AVOIDING DEAD AIR SPACES
"Dead air" spaces may prevent smoke from reaching the Smoke Alarm. To avoid dead air spaces, follow installation recommendations below.

On ceilings, install Smoke Alarms as close to the center of the ceiling as possible. If this is not possible, install the Smoke Alarm at least 4 inches (102 mm) from the wall or corner.

For wall mounting (if allowed by building codes), the top edge of Smoke Alarms should be placed between 4 inches (102 mm) and 12 inches (305 mm) from the wall/ceiling line, below typical "dead air" spaces.

On a peaked, gabled, or cathedral ceiling, install first Smoke Alarm within 3 feet (0.9 meters) of the peak of the ceiling, measured horizontally. Additional Smoke Alarms may be required depending on the length, angle, etc. of the ceiling's slope. Refer to NFPA 72 for details on requirements for sloped or peaked ceilings.

HOW TO INSTALL THIS ALARM
IMPORTANT!
This Smoke Alarm is designed to be mounted on any standard wiring junction box up to a 4-inch (10 cm) size, on either the ceiling or wall (if allowed by local codes). Read "Where to Install This Alarm" and "Where This Alarm Should Not Be Installed" before you begin installation.

Tools you will need: needle-nose pliers or utility knife, standard flathead screwdriver, wire strippers (for interconnected Alarms)

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

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

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

If you need to remove the power connector, turn **POWER OFF first.** Insert a flat screwdriver blade between the power connector and the security tab inside the power input block. Gently pry back the tab and pull the connector free.

THE PARTS OF THIS SMOKE ALARM

A Smoke LED (RED)
B Power LED (GREEN)
C Test/Silence button

1 Mounting Bracket
2 Mounting Slots
3 Locking Pins (break out of bracket)
4 Hot (Black) AC Wire
5 Neutral (White) AC Wire
6 Interconnect (Orange) Wire
7 Quick-Connect Power Connector

FOLLOW THESE SIMPLE STEPS
The basic installation of this Smoke Alarm is similar whether you want to install one Alarm, or interconnect more than one Alarm. If you are interconnecting more than one Alarm, you **MUST** read "Special Requirements for Interconnected Alarms" below before you begin installation.

⚠ DANGER!
ELECTRICAL SHOCK HAZARD. Turn off power to the area where you will install this unit at the circuit breaker or fuse box before beginning installation. Failure to turn off the power before installation may result in serious electrical shock, injury or death.

⚠ WARNING!
Improper wiring of the power connector or the wiring leading to the power connector will cause damage to the Alarm and may lead to a non-functioning Alarm. All power connections should be done using wire-nuts.

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

INTERCONNECTED UNITS ONLY:
Strip off about 1/2" (12 mm) of the plastic coating on the orange wire on the power connector.
- Connect the white wire on the power connector to the neutral wire in the junction box.
- Connect the black wire on the power connector to the hot wire in the junction box.
- Connect the orange wire on the power connector to the interconnect wire in the junction box. Repeat for each unit you are interconnecting. Never connect the hot or neutral wires in the junction box to the orange interconnect wire. Never cross hot and neutral wires between Alarms.

1. Remove the mounting bracket from the base, and attach it to the junction box.
2. Using wire nuts, connect the power connector to the household wiring.

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3. If there's a battery pull tab, activate the battery back-up by removing the "Pull to Activate Battery Back-Up" tab. You do no need to open the battery compartment during installation. If battery is not installed, install battery back-up. Battery back-up cannot work until you install the battery in the correct position (Match "+" to "+" and "-" to "-").
4. Plug the power connector into the back of the Alarm.
5. Position the base of the Alarm over the mounting bracket, and turn the Alarm clockwise (right) until the unit is in place. If wall mounted, adjust unit so words are level.
6. Check all connections.

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

INTERCONNECTED UNITS ONLY:
- If you are interconnecting multiple Alarms, repeat steps 1-6 for each Alarm in the series. When you are finished, restore power to the junction box.

⚠ DANGER!
ELECTRICAL SHOCK HAZARD. Do not restore power until all Smoke Alarms are completely installed. Restoring power before installation is complete may result in serious electrical shock, injury or death.

7. Turn AC power back on. Under normal operation, the Green power indicator light will shine continuously.
8. If the Green power indicator light does not light, **TURN OFF POWER TO THE JUNCTION BOX** and recheck all connections. If all connections are correct and the Green power indicator still does not light when you restore the power, the unit probably needs servicing.
9. **Single Station Alarms:** Test each Alarm. Press and release the Test/Silence button. The unit will chirp and then Alarm.
   Interconnected Alarms: Press and release the Test/Silence button. The unit will chirp and then Alarm. All interconnected Alarms should sound. The other Alarms sounding only tests the interconnect signal between Alarms. **It does not test each Alarm's operation. You must test each Alarm individually to check if the Alarm is functioning properly.**

⚠ DANGER!
If any unit in the series does not Alarm, TURN OFF POWER and recheck connections. If it does not Alarm when you restore power, replace it immediately.

SPECIAL REQUIREMENTS FOR INTERCONNECTED ALARMS
⚠ WARNING!
- Failure to meet any of the above requirements could damage the units and cause them to malfunction, removing your protection.
- AC and AC/DC Smoke Alarms can be interconnected. Under AC power, all units will Alarm when one senses smoke. When power is interrupted, only the AC/DC units in the series will continue to send and receive signals. AC powered Smoke Alarms will not operate.

Interconnected units can provide earlier warning of fire than stand-alone units, especially if a fire starts in a remote area of the dwelling. If any unit in the series senses smoke, all units will Alarm. To determine which Alarm initiated an Alarm, see table:
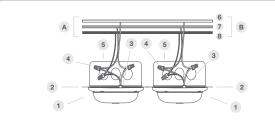
During an Alarm	**On Initiating Alarm(s):** Red LED(s) flashes (flash) rapidly in sync with horn **On All Other Alarms:** Green LED(s) Normal, Red LED(s) Off
After an Alarm (Latching)	**On Initiating Alarm(s):** Red LED(s) On for 2 seconds/ Off for 2 seconds **On All Other Alarms:** Green LED(s) Normal, Red LED(s) Off

COMPATIBLE INTERCONNECTED UNITS
IMPORTANT!
Interconnect units within a single family residence only. Otherwise all households will experience unwanted Alarms when you test any unit in the series. Interconnected units will only work if they are wired to compatible units and all requirements are met. This unit is designed to be compatible with: First Alert Smoke and Smoke/CO Alarms Models SMI100-AC, SMI105-AC, SMIC0100-AC, SMIC0105-AC, SA520, SM100V-AC, SMC0100V-AC, SM300-AC, SM500-AC, 1039102,7030BSL, SMI110LED-AC, SMIC0110LED-AC and BRK Smoke Alarm Models 3120B, 9120, 9120B, SC9120B, 7010, 7010B, 7010BSL, 7020B, 7020BSL, SC7010B, SC7010BV; BRK Heat Alarm Model HD6135FB; BRK Auxiliary Devices Models RM4 (Relay Module).

INTERCONNECTED UNITS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:
- A maximum of 18 compatible units may be interconnected (Maximum of 12 Smoke Alarms).
- The same fuse or circuit breaker must power all interconnected units.
- The total length of wire interconnecting the units should be less than 1000 feet (300 meters). This type of wire is commonly available at Hardware and Electrical Supply stores.
- All wiring must conform to all local electrical codes and NFPA 70 (NEC). Refer to NFPA 72, NFPA 101, and/or your local building code for further connection requirements.

A Unswitched 120VAC 60 Hz source
B To additional units; Maximum = 18 total (Maximum 12 Smoke Alarms)

1 Alarm
2 Ceiling or Wall
3 Power Connector
4 Wire Nut
5 Junction Box
6 Neutral Wire (White)
7 Interconnect Wire (Orange)
8 Hot Wire (Black)

Action	What You Will See & Hear
Normal Operations	Horn: Silent; Power LED: Steady Green; Smoke LED: Off
AC Power to Alarm is Off	Horn: Silent; Power LED: Flashes Green every minute; Smoke LED: Off
When You Test the Alarm	Horn: Short "chirp", then 3 beeps, pause, 3 beeps; Power LED: Green if AC power to Alarm is On; Smoke LED: Flashes Red in sync with horn
Alarm has reached Low Battery/End of Life	If AC power to Alarm is on OR first 15 minutes after AC power is removed Horn: Chirps 5 time every minute; Power LED: Flashes Green 2 seconds on/2 seconds off; Smoke LED: Flashes Red in sync with horn After first 15 minutes if AC power to Alarm is Off Horn: Chirps 5 times every minute; Power LED: Flashes Green 5 times every minute; Smoke LED: Off
Low Battery/End of Life Signal is Silenced	Horn: Silent (for up to 2 days, 14 days total); Power LED: Steady Green (AC power) or 5 Green flashes (on battery backup); Smoke LED: Off
Alarm is Not Operating Properly (Malfunction Signal)	Horn: 3 chirps every minute; Power LED: Flashes Green 3 times every minute; Smoke LED: Off
Smoke is Detected	Horn: 3 beeps, pause, 3 beeps; Power LED: Constant Green (AC power), Off (on battery backup); Smoke/CO 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 (See Latching Features section for details)
Smoke is Detected in Another Interconnected Alarm	Horn: 3 beeps, pause, 3 beeps; Power LED: Steady Green (AC power), Off (on battery backup); Smoke LED: Off
Smoke Alarm is Silenced (up to 15 Minutes)	Horn: Off; Power LED: Steady Green if AC power to Alarm is On, Flash 1 time every minute if Alarm is operating on battery backup; Smoke LED: Flashes Red 3 times, pause, 3 times

NOTE: Without AC Power and running on battery only, Low Battery Latch or Alarm Latch are only engaged for about 15 minutes to conserve power. Low Battery Latch and Alarm Latch do not operation with a missing battery and no AC power.

04 ALARM FEATURES

- **Easy Installation:** Add protection in minutes.
- **10 Year Battery Backup:** For protection during power outages.
- **Alarm Indicator:** Identifies unit that initiated Alarm.

LATCHING FEATURES
Alarm Latch is activated after an Alarm is exposed to Alarm levels of smoke. This feature will only work with AC power. See "Special Requirements for Interconnected Alarms" for signaling.

This feature helps emergency responders, investigators, or service technicians identify which unit(s) in your home were exposed to Alarm levels of smoke. This can help investigators pinpoint the source of smoke.

Interconnected Alarms. Latching Alarm Indicator shows which Alarm(s) in the series were exposed to Alarm levels of smoke. The Latching Alarm Indicator stays ON until you clear it, so it can alert you to an Alarm that occurred while you were away from home, even though smoke present in the air has dropped below Alarm levels.

Latching Alarm
Unit was exposed to Alarm levels of Smoke

Latching Not Activated
Unit was not exposed to Alarm levels of Smoke

Low Battery Latch is activated when the Alarm is in the "low battery condition". When this occurs, the Green LED flashes 2 seconds on, 2 seconds off. This feature is designed to help you identify which Alarm needs to be replaced.

OPTIONAL LOCKING FEATURE
The optional locking feature is designed to discourage unauthorized removal of the Alarm. It is not necessary to activate the locks in single-family households where unauthorized removal is not a concern.

Tools you will need: Needle-nose pliers or utility knife, standard flathead screwdriver

The locking feature uses a locking pin, which is molded into the mounting bracket. Using needle nose pliers or a utility knife, remove the pin from the mounting bracket.
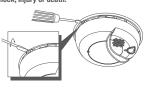
Locking Pin

TO LOCK THE MOUNTING BRACKET
1. Using needle-nose pliers or utility knife, detach one locking pin from mounting bracket.
2. Insert the locking pin into the lock located on the base as shown in the diagram.
3. When you attach the Smoke Alarm to the mounting bracket, the locking pin's head will fit into a notch on the bracket.

TO UNLOCK THE MOUNTING BRACKET
⚠ DANGER!
ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the 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.
1. Insert a flathead screwdriver between the mounting bracket pin and the mounting bracket.
2. Pry the Alarm away from the bracket by turning both the screwdriver and the Alarm counterclockwise (left) at the same time.

05 TESTING & MAINTENANCE

WEEKLY TESTING
⚠ WARNING!
NEVER use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home.

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

It is important to test this unit every week to make sure it is working properly. Using the test button is the recommended way to test this Smoke Alarm. Press and release the Test/Silence button on the cover of the unit. The unit will "chirp" and then Alarm. 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
This unit has been designed to be as maintenance-free as possible, but there are a few simple things you must do to keep it working properly:
- Test it at least once a week.
- Clean the Smoke Alarm at least once a month: gently vacuum the outside of the Smoke Alarm using your household vacuum's soft brush attachment. Test the Smoke Alarm. Never use water, cleaners or solvents since they may damage the unit.
- If the green power LED flashes 2 times every minute (horn is silent) it means that the Alarm needs to be cleaned as indicated above. If green LED continues to flash, please call Consumer Support.
- If the Smoke Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be cleaned to avoid unwanted Alarms, replace the unit immediately.
- Relocate the unit if it sounds frequent unwanted Alarms. See "Locations To Avoid For Smoke Alarms" for details.
- When the battery back-up becomes weak, the Smoke Alarm will "chirp" about 5 times a minute (the low battery warning). This warning should last 7 days, but you should replace the Alarm immediately to continue your protection.
- Protect or cover the alarm when doing any maintenance to home i.e. sanding floors, painting, drywall patching, etc. to prevent contamination.

⚠ WARNING!
- Alarm is supplied with lithium battery (factory locked in battery drawer) that is capable of providing backup battery function for the recommended life of the Alarm. At low battery or end of life signal, use tool to cut/disengage the locking pin located at side of factory locked drawer and properly dispose of lithium battery (reference drawing added) and Alarm. **DO NOT REPLACE BATTERY.**
- Please dispose of or recycle used batteries properly, following any local regulations. Consult your local waste management authority or recycling organization to find an electronics recycling facility in your area. **DO NOT DISPOSE OF BATTERIES IN FIRE. BATTERIES MAY EXPLODE OR LEAK.**

⚠ WARNING!
- Keep battery out of reach of children. In the event a battery is swallowed, immediately contact your poison control center, your physician, or the National Battery Ingestion hotline at 202-625-3333 as serious injury may occur.

IMPORTANT!
Actual battery service life depends on the Smoke Alarm and the environment in which it is installed. At low battery or end of life signal, use tool to cut/disengage the locking pin located at side of factory locked drawer and properly dispose of lithium battery and Alarm.

TROUBLESHOOTING GUIDE
⚠ DANGER!
ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Alarm is installed BEFORE removing it from the mounting bracket or checking any electrical connections! Failure to turn off the power first may result in electrical shock, injury or death.

IF THE ALARM...	PROBLEM...	YOU SHOULD...
Green Power light is off. Unit will not Alarm when you press the Test/Silence button	Unit may not be receiving any power.	Check the AC power supply. Make sure the power connector is securely connected to the Alarm.
Green Power light flashes On every minute (horn is silent).	Alarm is not receiving AC power.	Unit is operating on battery backup. Check the AC power supply.

Horn "chirps" 5 times every minute and Green Power LED flashes on for 2 seconds ON/ 2 seconds OFF (Low battery latch is engaged)	Battery is low or missing	Replace Alarm immediately. If unit is under warranty, contact Consumer Support to process a warranty replacement.
Horn "chirps" and Green Power LED flashes 5 times every minute	**END OF LIFE SIGNAL.** Alarm needs to be replaced.	Replace Alarm immediately
Horn "chirps" and Green Power LED flashes 3 times every minute	**MALFUNCTION SIGNAL.** Device is not working properly, and needs to be replaced.	If unit is under warranty, contact Consumer Support to process a warranty replacement.
Power LED flashes Green 2 times every minute	Alarm requires cleaning	Clean Alarm then press and release the test button. See "Regular Maintenance" section. If Green LED continues to flash, contact Consumer Support.
Alarm goes back into Alarm after you press the Test/Silence button to silence the Alarm	Smoke levels are still potentially dangerous	Refer to "If your Smoke Alarm Sounds" for details on how to respond to an Alarm. EVACUATE your home immediately and call 911.
Smoke Alarm sounds when no smoke is visible.	Unwanted Alarm may be caused by nonemergency source like cooking smoke.	Silence Alarm using test/ silence button. Clean the Alarm's cover with a soft, clean cloth. If frequent unwanted Alarms continue, relocate your Alarm. Alarm may be too close to a kitchen, cooking appliance or steamy bathroom.

If you have questions that cannot be answered by reading this manual, call the Consumer Support Team at 1-800-323-9005.

FIRE SAFETY TIPS
Follow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smoke in bed. 2) Keep matches or lighters away from children; 3) Store flammable materials in proper containers; 4) Keep electrical appliances in good condition and don't overload electrical circuits; 5) Keep stoves, barbecue grills, fireplaces and chimneys grease- and debris-free; 6) Never leave anything cooking on the stove unattended; 7) Keep portable heaters and open flames, like candles, away from flammable materials; 8) Don't let rubbish accumulate. Keep Alarms clean, and test them weekly. Replace Alarms immediately if they are not working properly. Smoke Alarms that do not work cannot alert you to a fire. Keep at least one working fire extinguisher on every level, and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper level in case stairs are blocked; 9) Have an escape plan and practice it regularly.

06 IF THIS SMOKE ALARM SOUNDS

RESPONDING TO AN ALARM
During an Alarm, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause.

⚠ WARNING!
- If the unit Alarms get everyone out of the house immediately.
- If the unit Alarms and you are not testing the unit, it is warning you of a potentially dangerous situation that requires your immediate attention. **NEVER** ignore any Alarm. Ignoring the Alarm may result in injury or death.
- Never disconnect the AC power to quiet an unwanted Alarm. Disconnecting the power disables the Alarm so it cannot sense smoke. This will remove your protection. Instead open a window or fan the smoke away from the unit. The Alarm will reset automatically.

⚠ DANGER!
ELECTRICAL SHOCK HAZARD. Attempting to disconnect the power connector from the unit when the power is on may result in electrical shock, serious injury or death.

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

WHAT TO DO IN CASE OF FIRE
- Don't panic; stay calm. Follow your family escape plan.
- Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.
- Feel doors with the back of your hand before opening them. If a door is cool, open it slowly. Don't open a hot door. Keep doors and windows closed, unless you must escape through them.
- Cover your nose and mouth with a cloth (preferably damp). Take short, shallow breaths.
- Meet at your planned meeting place outside your home, and do a head count to make sure everybody got out safely.
- Call the Fire Department as soon as possible from outside. Give your address, then your name.
- Never go back inside a burning building for any reason.
- Contact your Fire Department for ideas on making your home safer.

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

07 USING THE SILENCE FEATURES

The Silence Feature can temporarily quiet an unwanted Alarm for up to 15 minutes.

⚠ WARNING!
The Silence Feature does not disable the unit—it makes it temporarily less sensitive to smoke. For your safety, if smoke around the unit is dense enough to suggest a potentially dangerous situation, the unit will stay in Alarm or may re-Alarm quickly. If you do not know the source of the smoke, do not assume it is an unwanted Alarm. Not responding to an Alarm can result in property loss, injury, or death. If the unit will not silence and no heavy smoke is present, or if it stays in silence mode continuously, it should be replaced immediately.

TO SILENCE SMOKE ALARMS IN AN INTERCONNECTED SERIES
1. To silence multiple Alarms in an interconnected series, you must press the Test/Silence button on the unit(s) that initiated the Alarm.
   NOTE: The red LED on the initiating Alarm will flash 3 times, repeating. The red LED will be Off on all other non-initiating Alarms. No audible sound will be heard. The unit will exit "silence mode" in approximately 15 minutes.
2. While the unit is in "silence mode", pressing and holding the Test/Silence button for approximately 10 seconds will test the unit. After testing, the unit will re-enter "silence mode" and the 15-minute timer is reset.

SILENCING THE LOW BATTERY/END OF LIFE WARNING
The Silence Feature can temporarily quiet the low battery/end of life warning "chirp" for up to 48 hours. Press the Test/Silence button on the Alarm cover until you hear the acknowledge "chirp". Once the low battery/end of life warning "chirp" Silence Feature is activated, the unit continues to flash the green light 5 times every minute for up to 48 hours. Then, the end of life "chirp" will resume. Replace the unit as soon as possible, to maintain protection in event of a power outage.

IF YOU SUSPECT A PROBLEM
Smoke Alarms may not operate properly because of a dead or weak battery, 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 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.
- If you hear a "chirp" 5 times a minute, replace the Alarm.
- 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.

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.

08 REGULATORY INFORMATION FOR SMOKE ALARMS

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 (4.4° C) and 100° F (37.8° C). Make sure no door or other obstruction could keep smoke from reaching the Smoke Alarms.

MORE SPECIFICALLY, INSTALL SMOKE ALARMS:
- On every level of your home, including finished attics and basements.
- Inside every bedroom, especially if people sleep with doors closed.
- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is over 40 feet (12 meters) long, install an Alarm at each end.
- At the top of the first-to-second level stairway, and at bottom of 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 & WIRELESS   **HARDWIRED**

Smoke Alarms
CO CO Alarms
CO Both OR Combination Smoke/CO Alarms
Wireless Alarms
Wireless Interconnected Alarms
Hardwired Interconnected AC or AC/DC Alarms

09 AGENCY PLACEMENT RECOMMENDATIONS

Standards: Underwriters Laboratories Inc. Single and Multiple Station Smoke Alarms 217.

NFPA 72 CHAPTER 29 "FOR YOUR INFORMATION, THE NATIONAL FIRE ALARM AND SIGNALING CODE, NFPA 72, READS AS FOLLOWS:"

29.5.1* Required Detection.

29.5.1.1* Where required by other governing laws, codes, or standards for a specific type of occupancy, approved single and multiple-station Smoke Alarms shall be installed as follows:

1. *In all sleeping rooms and guest rooms
2. *Outside of each separate sleeping unit sleeping area, within 21 ft (6.4 m) of any door to a sleeping room, with the distance measured along a path of travel
3. On every level of a dwelling unit, including basements
4. On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics
5. *In the living area(s) of a guest suite
6. In the living area(s) of a residential board and care occupancy (small facility)

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CALIFORNIA STATE FIRE MARSHAL (CSFM)
Early warning detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows: A Smoke Alarm installed in each separate sleeping area (in the vicinity, but outside bedrooms), and Heat or Smoke Alarms in the living rooms, dining rooms, bedrooms, kitchens, hallways, finished attics, furnace rooms, closets, utility and storage rooms, basements, and attached garages.

10 SPECIAL COMPLIANCE CONSIDERATIONS

This Smoke Alarm is suitable for use in apartments, condominiums, townhouses, hospitals, day care facilities, health care facilities, boarding houses, group homes and dormitories 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.

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, dormitories, hospitals, health care facilities, nursing homes, day care facilities, or group homes of any kind. It is not a suitable substitute for complete fire detection systems in warehouses, industrial facilities, commercial buildings, and special-purpose non-residential buildings which require special fire detection and Alarm systems. Depending on the building codes in your area, special fire detection equipment may be required to provide additional protection in these facilities.

In new construction, most building codes require the use of AC or AC/DC powered Smoke Alarms only. In existing construction, AC, AC/DC, or DC powered Smoke Alarms can be used as specified by local building codes. THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269). Refer to NFPA 101 (Life Safety Code), local building codes, or consult your Fire Department for detailed fire protection requirements in buildings not defined as "households".

FCC COMPLIANCE
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver.
- Consult the dealer or an experienced radio or TV technician for help.

⚠ WARNING!
Changes or modifications to the product, not expressly approved by First Alert, could void the user's authority to operate the equipment.

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 received, including interference that may cause undesired operation.

11 GENERAL 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 them. This warning device cannot:

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 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 assist them in fire drill and in the event of an emergency. It is recommended that you hold a fire drill while family members are sleeping in order to determine 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 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 level or area of the home. For example, a stand-alone unit on the second level 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 home. Even with a unit on every level, 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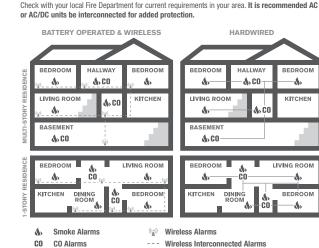 is drowned out by noise from stereo, TV, traffic, air conditioner or other appliances, 4) residents are hearing impaired or sound sleepers. Special purpose units, like those with visual and audible Alarms, should be installed for hearing impaired residents.

The Alarm 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, when a person's clothing catches fire while cooking, fires caused by violent explosions resulting from escaping gas, or incendiary fires where the fire grows so rapidly that an occupant's egress is blocked even with properly located Smoke Alarms.

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

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.

First Alert® warrants that for a period of ten years from the date of purchase, this product will be free from defects in material and workmanship. First Alert, 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. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. First Alert dealers, service centers, or retail stores selling First Alert 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 First Alert or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

First Alert shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states, provinces or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

HOW TO OBTAIN WARRANTY SERVICE

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Support Team at 1-800-323-9005. To assist us in serving you, please have the model number and date of purchase available when calling.

Battery: First Alert makes no warranty, express or implied, written or oral, including that of merchantability or fitness for any particular purpose with respect to battery.

Disposal: Please follow local guidelines regarding the disposal or recycling of batteries and/or electronics.

For your records, please record:

Date Purchased: _____

Where Purchased: _____

Date Installed: _____/_____Month/Year

Replace Alarm 10 years after installation.

Please write the date in the space provided:_____/_____ Month/Year

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The Alarm will also provide an audible End-of-Life Signal approximately 10 years after installation to remind you to replace the unit.

The End-of-Life Signal can be silenced for up to 2 days. Do not unplug or deactivate the Alarm until you get replacement.

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CONFORMS TO UL STD 217

120V AC – 60 Hz, 0.05A

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