

USER'S MANUAL

Model SM300-AC

SMOKE ALARM AC POWERED DUAL SENSOR WITH BATTERY BACKUP

IMPORTANT! PLEASE READ CAREFULLY AND SAVE The warnings/limita tions card and manual cont 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

A 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.

- **A WARNING** This unit will not alert hearing impaired residents.
- It is recommended that you install special units which use devices like flashing strobe
- lights to alert hearing impaired residents. Installation of this unit must conform to the electrical codes in your area; Articles 210 and 300.3 (B) of NFPA 70 (NEC), NFPA 72, NFPA 101; SBC (SBCCI); UBC (ICB0); NBC (BOCA); OTPOT (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, 120VAC pure sine wave 60Hz 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. This Alarm must have AC or battery power to operate. If the AC power fails, battery backup 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 wil reset automatically. **A 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 This Smoke/C0 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.

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.
- A 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.
- **A WARNING!**
- This Smoke Alarm cannot operate without working batteries. Removing the batteries for any reason, or failing to replace the batteries at the end of their service life, removes your protection • NEVER ignore any Alarm. See "If Your Smoke Alarm Sounds" for more information on how to
- respond to an Alarm. Failure to respond can result in injury or death. 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, On 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 functionalit

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 larm 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 impaired. They include a visual Alarm and an audible Alarm horn, and meet the requirements

ne With Disabilities Act These 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. lonization 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

WHERE TO INSTALL THIS ALARM Minimum coverage for Smoke Alarms, as recommended by the National Fire Protection Association (NFPA), is one Smoke Alarm on every floor, in every sleeping area, and in every bedroom (See "Regulatory Information For Smoke Alarms" for details on the NFPA recommendations).

NOTE: For added protection, install an additional Smoke Alarm at least 15 feet (4.6 meters) away from he furnace or fuel burning heat source where possible. In smaller homes or in manufa where this distance cannot be maintained, install the Alarm as far away as possible from the furnace or other fuel burning source. Installing the Alarm closer than 15 feet (4.6 meters) will not harm the Alarm, but may increase the frequency of unwanted Alarms.

IN GENERAL. INSTALL SMOKE ALARMS:

- · On every level of your home, including finished attics and basements
- Inside every bedroom, especially if people sleep with the door partly or completely closed.
 In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each.
- If a hall is more than 40 feet (12 meters) long, install a unit at each end. • At the top of first-to-second floor stairs.
- At the bottom of the basement stairs.
- For additional coverage, install Alarms in all rooms, halls, and storage areas, where temperatures normally remain between 40° F and 100° F (4.4° C and 37.8° C).

- Smoke Alarm One on every level and **Carbon Monoxide Alarm** One on every level and in every bedroon Fire Extinguishe 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 mee NOTE: For any location, make sure no door or other obstruction could keep carbon monoxide or smoke om reaching the Alarm

WHERE NOT TO INSTALL THIS ALARM

RECOMMENDED PLACEMENT

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- FOR BEST PERFORMANCE, IT IS RECOMMENDED YOU AVOID INSTALLING SMOKE ALARMS IN THESE AREAS:
- In garages, furnace rooms, crawl spaces and unfinished attics. Avoid extremely dusty, dirty or greasy areas. Where combustion particles are produced. Combustion particles form when something burns.
- Areas to avoid include poorly ventilated kitchens, garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater space heater) if possible. In areas where a 20-foot (6 meter) distance is not possible - in modular space neares in possible. In access where a 20-100 to meter) ustance is indiposable — in nous 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 inwanted" 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.
- Within 5 feet (1.5 meters) of any cooking appliance. In air streams near kitchens. Air currents can draw cooking smoke into the smoke sensor and cause unwanted Alarms.
- In extremely humid areas. This Alarm should be at least 10 feet (3 meters) from a shower, sauna. nidifier, vaporizer, dishwasher, laundry room, utility room, or other source of high humidity.
- In direct sunlight. In turbulent air, like near ceiling fans or open windows. Blowing air may prevent smoke from reaching the sensors.
- In areas where temperature is colder than 40° F (4.4° C) or hotter than 100° F (37.8° C). These areas include non-airconditioned crawl spaces, unfinished attics, uninsula or poorly insulated ceilings, porches, and garages.
- In insect infested areas. Insects can clog the openings to the sensing chamber.
 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, ation recommendations below

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

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 neaked ceiling

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. 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.

A 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 Alarm base, hold the 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 nside the power input block. Gently pry back the tab

and pull the connector free. THE PARTS OF THIS

- **SMOKE ALARM** 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
- 8 Turn this way to remove from bracket
- 9 Turn this way to
- attach to bracket 10 Slide-Out Battery Drawer

FOLLOW THESE SIMPLE STEPS

he basic installation of this 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

ELECTRICAL SHOCK HAZARD. Turn off power to the area where you will install this unit at the rcuit breaker or fuse box before beginning installation. Failure to turn off the power before

installation may result in serious electrical shock, injury or death.





between Alarms.

(Match "+" to "+" and "-" to "-").

4. Plug the power connector into the back of the Alarm

 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:

Connect the black where on the power connector to the hotwine 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

battery back-up. Battery back-up cannot work until you install the battery in the correct position

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

- 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.

LATCHING FEATURE (CONTINUED)...

5. Position the base of the Alarm over the mounting bracket, and turn the Alarm clockwise (right) until

mproper wiring of the power connector or the wiring leading to the power connector will cause

If you are interconnecting multiple Alarms, repeat steps 1-5 for each Alarm in the series. When you are finished, restore power to the junction box.

ELECTRICAL SHOCK HAZARD. Do not restore power until all Alarms are completely installed.

1. Make sure the Alarm is receiving AC power. Under normal operation, the Green power indicator

2. If the Green power indicator light does not light, TURN OFF POWER TO THE JUNCTION BOX and

3. Test each Smoke Alarm, Press and hold the Test/Silence button until the unit Alarms, When

recheck all connections. If all connections are correct and the Green power indicator still does not light when you restore the power, the unit should be replaced immediately.

testing a series of interconnected units you must test each unit individually. Make sure all

If any unit in the series does not Alarm, TURN OFF POWER and recheck connections. If it does

Failure to meet any of the above requirements could damage the units and cause them to

· AC and AC/DC Alarms can be interconnected. Under AC power, all units will Alarm when

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

(flash) rapidly

Red LED(s) Off

Off for 2 seconds

nnect 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 Alarm Models 7010, 9120, 3120B, 7010B, 7010BSL, 7020B, 7020BSL, 9120B,

SA520, SC7010B, SC7010BV, SC9120B, SM100V-AC, SM300-AC, SM500-AC, and SM110LED-AC; First

Alert Smoke & CO Alarm Models 1039102, 7030BSL, SMC0100V-AC, SMC0110LED-AC; First Alert CO Alarm Models C05120BN and C05120PDBN; First Alert Heat Alarm Model HD6135FB; RM4 Relay and

A maximum of 18 compatible units may be interconnected (Maximum of 12 Smoke Alarms).

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

INTERCONNECTED UNITS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:

4 Wire Nut

5 Junction Box

6 Neutral Wire (White)

What You Will See & Hear

Rapidly Flashing RED

1x every minute

3x every minute

5x every minute

5x every minute

Note: Without AC Power and running on battery only Low Battery Latch or Alarm Latch are

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

Horn: Silent; LED: Constant GREEN

Horn: Silent; LED: Flashes GREEN 1x every minute

If AC power to Alarm is on OR first 15 minutes after AC power is removed **Horn:** Chirps 1x every minute;

LED: Flashes GREEN 2 seconds on/2 seconds off

After first 15 minutes if AC power to Alarm is Off

Horn: Chirps 1x every minute; LED: Flashes GREEN

Horn: Silent; LED: Flashes GREEN 1x every minute

Horn: 3 chirps every minute; LED: Flashes GREEN

Horn: 5 chirps every minute; LED: Flashes GREEN

Horn: 3 beeps, pause, repeating: LED: Constant GREEN

Horn: 4 beeps, pause, repeating; LED: Constant GREEN

Horn: Silent; Smoke LED: Flashes GREEN

Horn: 3 beeps, pause, repeating; LED:

*LED Off when on battery backup

*LED Off when on battery backup

Horn: Off: LED: Rapidly Flashing RED

Horn: 3 beeps, pause, repeats 1 time; LED:

The same fuse or circuit breaker must power all interconnected units.

101, and/or your local building code for further connection requir

Red LED(s) Off

one senses smoke or C0. When power is interrupted, only the AC/DC units in the series will continue to send and receive signals. AC powered Alarms will not operate.

On Initiating Alarm(s): Red LED(s) flashes

On All Other Alarms: Green LED(s) Normal,

On All Other Alarms: Green LED(s) Normal,

On Initiating Alarm(s): Red LED(s) On for 2 seconds/

B To additional units; Maximum =

18 total (Maximum 12 Smoke Alarms)

7 Interconnect Wire

8 Hot Wire (Black)

(Orange)

Restoring power before installation is complete may result in serious electrical shock,

the unit is in place. If wall mounted, adjust unit so words are level.

If you are only installing one Alarm, restore power to the junction box.

lamage to the Alarm and may lead to a non-functioning Alarr

6. Check all connections.

STAND-ALONE ALARM ONLY:

light will shine continuously

units Alarm when each one is tested.

not Alarm when you restore power, replace it immediately.

moving your protection.

determine which Alarm initiated an Alarm, see table:

SPECIAL REQUIREMENTS FOR INTERCONNECTED ALARMS

INTERCONNECTED UNITS ONLY:

A WARNING!

A DANGER!

injury or death.

A DANGER!

A WARNING!

During an Alarm

IMPORTANT!

After an Alarm (Latching)

COMPATIBLE INTERCONNECTED UNITS

SLED177 Strobe when connected via an RM4 Relay.

A Unswitched 120VAC 60 Hz source

1 Alarm

Action

2 Ceiling or Wall

3 Power Connector

Under Normal Operations

On Battery Backup Signal

When You Test the Alarm

Battery Becomes Low

(for up to 8 hours)

(for up to 8 hours)

Smoke is Detected

Interconnected Alarm

CO is Detected in another

Smoke Alarm is Silenced

LATCHING FEATURE

pinpoint the source of smoke.

only engaged for about 15 minutes to conserve power

Dual Sensor: Protection from fast flaming and slow smoldering fires.

Battery Backup: For protection during power outages. Quick Connect Plug: Allows for easy installation. No need to rewire.

04 ALARM FEATURES

Interconnected Alarm

(up to 8 minutes)

Low Battery Signal is Silenced

Alarm has reached End of Life

End of Life Signal is Silenced

Smoke is Detected in another

(MALFUNCTION SIGNAL)

Properly

Interconnected Alarms. Latching Alarm Indicator shows which Alarm(s) in the series were exposed to Alarm levels of smoke. The Latching Alarm Indicator stavs 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 Alarm levels of Smoke

Latching Not Activated 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 have the battery replaced.

"SMART INTERCONNECT" FEATURE

during a CO Alarm.

LOCKING FEATURES

rd flathead screwdriver

features you want to use.

tested the battery back-up.

until the Alarm sounds.

IMPORTANT!

back of the Alarm.

the battery compartment.

Unlock the Mounting Bracket."

away from the back of the Alarm.

IMPORTANT!

IMPORTANT

battery compartment

detach one locking pin

from mounting bracket

Insert the locking pin into

the lock located opposite

from the battery drawe

3. When you attach the

on the bracket.

at the same time.

WEEKLY TESTING

A WARNING

A CAUTION!

flashes rapidly

as shown in the diagram.

bracket, the locking pin's

head will fit into a notch

IMPORTANT!

This Alarm includes "Smart Interconnect" which enables the Alarm to be interconnected with other First Alert® Smoke, Heat and "Smart Interconnect" CO Alarms. When smoke is detected, all Alarms will sound the smoke horn pattern. When CO is detected, "Smart Interconnect" Alarms will sound the CO horn pattern. Alarms that do not have the "Smart Interconnect" feature will remain silent

The optional locking features are designed to discourage unauthorized removal of the batteries or Alarm. It is not necessary to activate the locks in single-family households where authorized battery or Alarm removal is not a concerr

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



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



TO UNLOCK THE BATTERY COMPARTMENT Once the Alarm is installed, you must disconnect it from the AC power before unlocking

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Alarm is



compartment, save the locking pin.) 4. To relock the battery compartment, close the battery door and reinsert locking pin in lock. Reconnect the power connector to the back of the Alarm, reattach the Smoke Alarm to the

mounting bracket, and restore the power.

When replacing the batteries, always test the Alarm before relocking the



TO UNLOCK THE MOUNTING BRACKET



05 TESTING & MAINTENANCE

• 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.If the Alarm ever fails to test properly, replace it immediately. Products under warranty may be 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/Silence button is the recommended way to test this Smoke Alarm.

Press and hold the Test/Silence button on the cover of the unit until the Alarm sounds (the unit may continue to Alarm for a few seconds after you release the button). If it does not Alarm, make sure the init 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. Red LED

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 off any dust using your household vacuum's soft brush attachment, and test the Smoke Alarm after cleaning. Never use water,
- cleaners or solvents since they may damage the unit. If the Smoke Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be cleaned to avoid unwanted Alarms, replace the unit immediate
- · Relocate the unit if it sounds frequent unwanted Alarms. See "Locations to Avoid
- for Smoke Alarms" for details.
- Protect or cover the alarm when doing any maintenance to home i.e. sanding floors, painting, drywall patching, etc. to prevent contamination. IMPORTANT!

ual service life depends on the Smoke Alarm and the environment in which it is installed. You MUST replace the Smoke Alarm immediately once the unit starts "chirping" (the End of Life or

CHOOSING A REPLACEMENT BATTERY:

Your Smoke Alarm requires two standard AA batteries. The following batteries are acceptable as replacements: Eveready Energizer E91 or Duracell MN1500. These batteries are available at many local retail stores.

A WARNING!

Malfunction warning)

- Always use the exact batteries specified by this User's Manual. DO NOT use rechargeable batteries. Clean the battery contacts and also those of the device prior to battery insta Install batteries correctly with regard to polarity (+ and -).
- Please dispose of or recycle used batteries properly, following any local regulations. Consult your local waste management authority or recycling organi ation to find an elec in your area. DO NOT DISPOSE OF BATTERIES IN FIRE. BATTERIES MAY EXPLODE OR LEAK.
- A 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! ctual 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 ufacturer's suggested battery life, you MUST replace the battery immediately once the unit starts "chirping" (the "low battery warning").

To replace the batteries (without removing Alarm from the ceiling or wall):

- 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
- they snap completely into the battery compartment. Match the terminals on the ends of the batteries with the terminals on the unit. 4. Close the battery compartment, and then test

the unit by pressing the Test/Silence button



TROUBLESHOOTING GUIDE

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 attached to the Alarm. Make sure a fresh battery is installed to power the battery backup*.
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" 1 time every minute and LED flashes Green every minute	Unit is powered via AC, but battery is low or missing OR Alarm is not receiving AC power, but battery is low.	Replace battery*
Horn "chirps" 3 times every minute and LED flashes Green 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.
Horn "chirps" 5 times every minute and LED flashes Green 5 times every minute	END OF LIFE SIGNAL. Alarm needs to be replaced.	Replace Alarm immediately
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.

*For a list of acceptable replacement batteries, see "Regular Maintenance.

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

ollow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smok 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 overlaad 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 veekly. Replace Alarms immediately if they are not working properly. Smoke Alarms that do not work ou to a fire. Keep at least one working fire extingui 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. The Red LED flashes rapidly.

- A 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 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.
- 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. A 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 8 minutes.

A WARNING! he 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 vill 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

To silence multiple Alarms in an interconnected series, you must press the Test/Silence button on the) that initiated the Alarm. NOTE: The red LED on the initiating Alarm will flash on three times, repeating. The red LED will be Off on all other non-initiating Alarms. Once silenced, no audible sound will be heard. The unit will exit

silence mode" in approximately 8 minutes. SILENCING THE LOW BATTERY WARNING

This Silence Feature can temporarily quiet the low battery warning "chirp" for up to 8 hours. Press the Test/Silence button on the Alarm cover until you hear the acknowledge "chirp". Once the low battery warning "chirp" Silence Feature is activated, the unit continues to flash the green light once a minute for hours. After 8 hours, the low battery "chirp" will resume. Replace the batteries as soon as possible, to maintain protection in event of a power outage.

SILENCING THE END OF LIFE SIGNAL

This Silence Feature can temporarily quiet the End of Life warning "chirp" for up to 8 hours. You can silence the End of Life warning "chirp" by pressing the Test/Silence button. The horn will chirp, acknowledging that the End of Life Silence Feature has been activated. Once the end of life battery warning "chirp" Silence Feature is activated, the unit continues to flash the green light 5 times a minute for 8 hours. After approximately 8 hours, the End of Life "chirp" will resume. The timer shall not be able to be reset after 7 days following the initial end-of-life signal.

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 imme

- If you hear 3 or 5 chirps every minute or so, replace the Smoke Alarm. If you hear a chirp every minute, replace the battery.
- If you experience frequent non-emergency Alarms (like those caused by cooking smoke), try relocating the Smoke Alarm. • If the Alarm sounds when no smoke is visible, try cleaning or relocating the Smoke Alarm. The
- cover may be dirty. • If the Alarm does not sound during testing, make sure the power pack activating lever is pushed
- 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 btain Warranty Service" in the Limited Wa

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 level, 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 Ala

- 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 recom or AC/DC units be interconnected for added protection.



09 AGENCY PLACEMENT RECOMMENDATIONS

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 stalled as follow

1. *In all sleeping rooms and guest rooms

5. *In the living area(s) of a guest suite

3. On every level of a dwelling unit, including basements

excluding crawl spaces and unfinished attics

sented only by the standard in its entirety).

CALIFORNIA STATE FIRE MARSHAL (CSFM)

all residents or meet local fire protection ordinances/regulations.

Protection Association Inc. Quincy MA 02269)

basements, and attached garages.

FCC COMPLIANCE

more of the following measures:

cause harmful interference to radio communications

· Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver

• Consult the dealer or an experienced radio or TV technician for help.

· Connect the equipment into an outlet on a circuit different from that of the receiver.

2. *Outside of each separate dwelling 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

6. In the living area(s) of a residential board and care occupancy (small facility)

4. On every level of a residential board and care occupancy (small facility), including basements and

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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

ne 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

10 SPECIAL COMPLIANCE CONSIDERATIONS

This Smoke Alarm is suitable for use in apartments, condominiums, townhouses, hospitals, day care

detection system already exists to meet fire detection requirements in common areas like lobbies,

This Smoke Alarm alone is not a suitable substitute for complete fire detection systems in places

health care facilities, nursing homes, day care facilities, or group homes of any kind. It is not a

cilities, health care facilities, boarding houses, group homes and dormitories provided a primary fire

nallways, or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to

ousing many people-like apartment buildings, condominiums, hotels, motels, dormitories, hospitals,

suitable substitute for complete fire detection systems in warehouses, industrial failities, commercial buildings, and special-purpose non-residential buildings which require special fire detection and Alarm

systems. Depending on the building codes in your area, this Smoke Alarm may be used 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"

This equipment has been tested and found to comply with the limits for a Class B digital device,

inst harmful interference in a residential installation. This equipment generates, uses and car

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

y turning the equipment off and on, the user is encouraged to try to correct the interference by one or

adiate radio frequency energy and, if not installed and used in accordance with the instructions, may

pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection

National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is

A 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 ndesired 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. They are not foolproof.

Smoke Alarms may not waken all individuals. Practice the escape plan at least twice a year, making sure that everyone is involved – from kids to grandparents. Allow children to 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 areaespecially 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 standalone 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. a bint of every rever, statu-alone bints may not provide 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, if 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.

12 LIMITED WARRANTY

First Alert® brand products warrants that for a period of ten years from the date of purchase, this product will be free from defects in material and workmanship. 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 initiations 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 make 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 /

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 8 hours. Do not unplug or deactivate the Alarm until you get replacement. Printed in Mexico | M08-0603-000 03/23

CONFORMS TO UL STD 217 120V AC ~, 60Hz, 0.07A firstalert.com



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