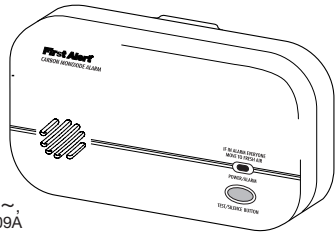


# First Alert

## USER'S MANUAL

### 120V PLUG-IN CARBON MONOXIDE ALARM WITH SILENCE FEATURE



120V AC ~,  
60 Hz, 0.09A

Printed in Mexico M08-0085-001 S 07/04

Model FCD2NP

#### IMPORTANT! PLEASE READ CAREFULLY AND SAVE.

This user's manual contains important information about your Carbon Monoxide (CO) Alarm's operation. If you are installing this CO Alarm for use by others, you must leave this manual—or a copy of it—with the end user.

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## INTRODUCTION

### 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 IS NOT A SMOKE ALARM!** This CO Alarm is designed to detect carbon monoxide from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gas.
- This CO Alarm is approved for use in single-family residences. It is NOT designed for marine or RV use.

#### CAUTION!

- This CO Alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.

#### WARNING!

- The Silence Feature is for your convenience only and will not correct a CO problem. Always check your home for a potential problem after any alarm. Failure to do so can result in injury or death.
- This CO Alarm should receive continuous 120VAC, 60 Hz, pure sine wave electrical power. Do not use in an extension cord or outlet controlled by a dimmer or switch.
- NEVER ignore your Carbon Monoxide Alarm if it alarms. Refer to "If Your CO Alarm Sounds" for more information. Failure to do so can result in injury or death.
- Test the CO Alarm once a week. If the CO Alarm ever fails to test correctly, have it replaced immediately! If the CO Alarm is not working properly, it cannot alert you to a problem.
- This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure CO levels in compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards. Individuals with medical conditions that may make them more sensitive to carbon monoxide may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm. For additional information on carbon monoxide and your medical condition contact your physician.

## HOW YOUR CO ALARM WORKS

### GENERAL INFORMATION

#### CAUTION!

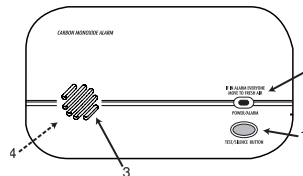
Leave your CO Alarm plugged in year-round. CO problems can occur any time during the year, and this Alarm can only alert you if it is plugged in and receiving power.

This CO Alarm is intended for use in a standard, unswitched 120V AC wall outlet. It is not intended for use in extension cords, power strips, or outlets controlled by a switch or dimmer. These may not provide continuous power to the unit. When fully powered, the unit samples the air and takes a new reading about every second. A microchip inside the unit stores each reading, and remembers the levels of CO it has been exposed to over time. The Alarm sounds when it has been exposed to a "critical" level of CO (measured in parts per million or "ppm") within a specified time (measured in minutes). This CO Alarm features a permanently installed sensor, an indicator light, and an 85dB alarm horn. It also has a Silence Feature to temporarily quiet the alarm horn.

#### MALFUNCTION WARNING

This unit performs self-diagnostic tests approximately every second. If the Alarm malfunctions, it should be replaced immediately.

### THE COVER OF YOUR CO ALARM



- 1 Test/Silence Button
- 2 POWER/ALARM Light (Red)
- 3 Air Vents
- 4 Alarm Horn: 85dB audible alarm for test, alarm, and unit malfunction warning.

## UNDERSTANDING YOUR CO ALARM

*What you see and hear during installation*

### WHEN YOU FIRST PLUG-IN THE CO ALARM:

**HORN:** May chirp briefly

**POWER/ALARM LIGHT:**  
Shines continuously

### UNDER NORMAL CONDITIONS (AC POWER):

**HORN:** Silent

**POWER/ALARM LIGHT:**  
Shines continuously

### WHEN YOU TEST THE CO ALARM:

**HORN:** Sounds loudly - 4 beeps, pause, 4 beeps, pause

**POWER/ALARM LIGHT:**  
Flashes rapidly

*What you see and hear under different conditions:*

### WHEN THE ELECTRICITY COMES BACK ON AFTER A POWER FAILURE:

**HORN:** May chirp briefly

**POWER/ALARM LIGHT:**  
Shines continuously.

### IF THE CO ALARM IS NOT OPERATING PROPERLY:

**HORN:** Three rapid chirps every minute

**POWER/ALARM LIGHT:**  
Flashes three times in sync with the horn.

*What you see and hear if CO is detected:*

### PRE-ALARM LEVELS:

**HORN:** Silent

**POWER/ALARM LIGHT:**  
On continuously

### ALARM LEVELS OF CO ARE DETECTED:

**HORN:** Sounds loudly - 4 beeps, pause, 4 beeps, pause.

This sequence repeats for as long as the unit is in alarm\*

**POWER/ALARM LIGHT:**  
Flashes rapidly

### IF YOU SILENCE THE ALARM:

**HORN:** Silent for about 4 minutes

**POWER/ALARM LIGHT:**  
Flashes rapidly

Note: After 4 minutes, if CO levels drop below alarm levels, the unit will remain silent and return to normal operation. If CO presence still indicates a potentially dangerous situation, the horn will sound again.

### IF THE CO LEVELS RETURN TO NORMAL:

**HORN:** Silent

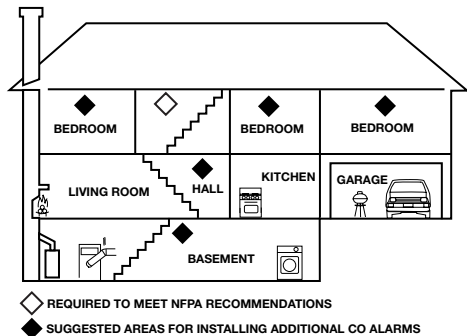
**POWER/ALARM LIGHT:**  
Shines continuously

## INSTALLATION

### WHERE TO INSTALL CO ALARMS

The National Fire Protection Association (NFPA) recommends that a CO Alarm should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional CO Alarms in each separate bedroom, and on every level of your home.

If your bedroom hallway is longer than 40 feet (12 meters), install a CO Alarm at BOTH ends of the hallway.



#### In a Single-level Home:

- Install at least one CO Alarm near or within each separate sleeping area.
- For added protection, install an additional CO Alarm at least 20 feet (6 meters) away from the furnace or fuel burning heat source.

#### In a Multi-level Home:

- Install at least one CO Alarm near or within each separate sleeping area.
- For added protection, install at least one CO Alarm on each level of the home. If you have a basement, install that CO Alarm at the top of the basement stairs.
- For added protection, install an additional CO Alarm at least 20 feet (6 meters) away from the furnace or fuel burning heat source.

### ⚠ WARNING!

This unit should receive continuous electrical power. Choose an outlet where it can't be accidentally unplugged or switched off by children. Keep small children away from the unit. Teach them not to play with it or unplug it. Explain what the alarms mean.

## WHERE CO ALARMS SHOULD NOT BE INSTALLED

### DO NOT LOCATE THIS CO ALARM:

- In garages, kitchens, furnace rooms, or in any extremely dusty, dirty or greasy areas.
- Closer than 15 feet (4.6 meters) from a furnace or other fuel burning heat source, or fuel burning appliances like a water heater.
- Within 5 feet (1.5 meters) of any cooking appliance.
- In extremely humid areas. This Alarm should be at least 10 feet (3 meters) from a bath or shower, sauna, humidifier, vaporizer, dishwasher, laundry room, utility room or other source of high humidity.
- In areas where temperature is colder than 40° F (4° C) or hotter than 100° F (38° C). These areas include non-airconditioned crawl spaces, unfinished attics, uninsulated or poorly insulated ceilings, porches, and garages.
- In turbulent air, like near ceiling fans, heat vents, air conditioners, fresh air returns, or open windows. Blowing air may prevent CO from reaching the sensors.
- In direct sunlight.
- In outlets covered by curtains or other obstruction.

### ⚠ WARNING!

- This CO Alarm is designed for use inside a single-family home or apartment. It is not meant to be used in common lobbies, hallways, or basements of multi-family buildings unless working CO Alarms are also installed in each family living unit. CO Alarms in common areas may not be heard from inside individual family living units.
- This CO Alarm alone is not a suitable substitute for complete detection systems in places which house many people, like hotels or dormitories, unless a CO Alarm is also placed in each unit.
- DO NOT use this CO Alarm in warehouses, industrial or commercial buildings, special-purpose non-residential buildings, RVs, boats, or airplanes. This CO Alarm is specifically designed for residential use, and may not provide adequate protection in non-residential applications.

## HOW TO INSTALL YOUR CO ALARM

1. Plug the unit into a standard UNSWITCHED 120V AC outlet. The unit should be located where it can wake you if it alarms at night.
2. Make sure the POWER/ALARM light shines continuously when you plug it in. The horn may "chirp" during power up, or when power is restored after an outage.
3. Test by pressing the Test/Silence button firmly until the unit sounds: four loud beeps, pause, 4 beeps. During testing, the POWER/ALARM light will flash rapidly. This is normal.

### PREPARE YOUR ALARM LABELS

Find the pair of self-adhesive labels included with this CO Alarm.

- On each label write in the phone number of your emergency responder (like 911) and a qualified appliance technician.
- Place one label near the CO Alarm, and the other label in the "fresh air" location you plan to go if the alarm sounds.

**NOTE:** A qualified appliance technician is defined as "a person, firm, corporation, or company that either in person or through a representative, is engaged in and responsible for the installation, testing, servicing, or replacement of heating, ventilation, air conditioning (HVAC) equipment, combustion appliances and equipment, and/or gas fireplaces or other decorative combustion equipment."

## IF YOUR CO ALARM SOUNDS

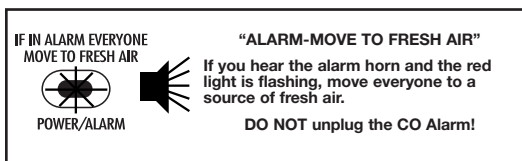
Actuation of your CO Alarm indicates the presence of carbon monoxide (CO) which can kill you. In other words, when your CO Alarm sounds, you must not ignore it!

### IF THE ALARM SIGNAL SOUNDS:

1. Operate the Test/Silence button.
2. Call your emergency services, fire department or 911. Write down the number of your local emergency service here:  

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3. Immediately move to fresh air—outdoors or by an open door or window. Do a head count to check that all persons are accounted for. Do not re-enter the premises, or move away from the open door or window until the emergency services responder has arrived, the premises have been aired out, and your CO Alarm remains in its normal condition.
4. After following steps 1-3, if your CO Alarm reactivates within a 24-hour period, repeat steps 1-3 and call a qualified appliance technician to investigate for sources of CO from fuel-burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection have the equipment serviced immediately. Note any combustion equipment not inspected by the technician, and consult the manufacturers' instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not, been operating in an attached garage or adjacent to the residence. Write down the number of a qualified appliance technician here:  

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### ⚠WARNING!

Alarms have various limitations. See "General Limitations of CO Alarms" for details.

## USING THE SILENCE FEATURE

The Silence Feature is intended to temporarily silence your CO Alarm's alarm horn while you correct the problem—it will not correct a CO problem. While the Alarm is silenced, it will continue to monitor the air for CO.

When CO reaches alarm levels, the Alarm will sound—repeating horn pattern: 4 beeps, a pause, 4 beeps, etc. Press and hold the Test/Silence button until the horn is silent. The Silence cycle will last approximately 4 minutes.

### NOTE:

After 4-minute Silence cycle, the CO Alarm re-evaluates present CO levels and responds accordingly. If CO levels remain potentially dangerous—or start rising higher—the horn will start sounding again.

### ⚠WARNING!

The Silence Feature is for your convenience only and will not correct a CO problem. Always check your home for a potential problem after any alarm. Failure to do so can result in injury or death.

### ⚠WARNING!

NEVER unplug your CO Alarm to silence the horn. Use the silence feature. Unplugging the CO Alarm removes your protection!

## TESTING AND MAINTENANCE

### WEEKLY TESTING

Press the Test/Silence button on the Alarm cover until alarm sounds. During testing, you will hear a loud alarm sequence – 4 beeps, pause, 4 beeps, pause.

### ⚠WARNING!

- If the Alarm ever fails to test properly, replace it immediately. Products under warranty may be returned to the manufacturer for replacement. See "Limited Warranty" at the end of this manual.
- 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.
- NEVER use vehicle exhaust! Exhaust may cause permanent damage and voids your warranty.

## REGULAR MAINTENANCE

To keep the CO Alarm working properly:

- Test it every week as described in "Weekly Testing."
- Vacuum the CO Alarm cover at least once a month, using the soft brush attachment. Never use water, cleaners, or solvents, since they may damage the unit. Test the Alarm again after vacuuming.

### ⚠CAUTION!

DO NOT spray cleaning chemicals or insect sprays directly on or near the CO Alarm. DO NOT paint over the CO Alarm. Doing so may cause permanent damage.

### IMPORTANT!

Household cleaners, aerosol chemicals and other contaminants can affect the sensor. When using any of these materials near the CO Alarm, make sure the room is well ventilated.

### IMPORTANT!

If your home is being fumigated, unplug the unit temporarily and put it where it will not be exposed to chemicals or fumes. When fumigation is complete and all traces of fumes clear, plug the unit back in and retest it.

## WHAT YOU NEED TO KNOW ABOUT CO

### WHAT IS CO?

CO is an invisible, odorless, tasteless gas produced when fossil fuels do not burn completely, or are exposed to heat (usually fire). Electrical appliances typically do not produce CO.

**These fuels include:** Wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane.

Common appliances are often sources of CO. If they are not properly maintained, are improperly ventilated, or malfunction, CO levels can rise quickly. CO is a real danger now that homes are more energy efficient. "Air-tight" homes with added insulation, sealed windows, and other weatherproofing can "trap" CO inside.

### SYMPTOMS OF CO POISONING

These symptoms are related to CO POISONING and should be discussed with ALL household members.

#### Mild Exposure:

Slight headache, nausea, vomiting, fatigue ("flu-like" symptoms).

#### Medium Exposure:

Throbbing headache, drowsiness, confusion, fast heart rate.

#### Extreme Exposure:

Convulsions, unconsciousness, heart and lung failure. Exposure to carbon monoxide can cause brain damage, death.

### IMPORTANT!

This CO Alarm measures exposure to CO over time. It alarms if CO levels are extremely high in a short period of time, or if CO levels reach a certain minimum over a long period of time. The CO Alarm generally sounds an alarm before the onset of symptoms in average, healthy adults. Why is this important? Because you need to be warned of a potential CO problem while you can still react in time. In many reported cases of CO exposure, victims may be aware that they are not feeling well, but become disoriented and can no longer react well enough to exit the building or get help. Also, young children and pets may be the first affected. The average healthy adult might not feel any symptoms when the CO Alarm sounds. However, people with cardiac or respiratory problems, infants, unborn babies, pregnant mothers, or elderly people can be more quickly and severely affected by CO. If you experience even mild symptoms of CO poisoning, consult your doctor immediately!

### FINDING THE SOURCE OF CO AFTER AN ALARM

Carbon monoxide is an odorless, invisible gas, which often makes it difficult to locate the source of CO after an alarm. These are a few of the factors that can make it difficult to locate sources of CO:

- House well ventilated before the investigator arrives.
- Problem caused by "backdrafting."
- Transient CO problem caused by special circumstances.

Because CO may dissipate by the time an investigator arrives, it may be difficult to locate the source of CO. **BRK Brands, Inc. shall not be obligated to pay for any carbon monoxide investigation or service call.**



## TROUBLESHOOTING GUIDE

PROBLEM...	THIS MEANS...	YOU SHOULD...
Red light is OFF. Unit will not alarm when you press the Test/Silence button.	CO Alarms may not be plugged all the way in, or is not receiving power.	Gently push unit all the way into outlet. Make sure it is not plugged into an outlet controlled by a switch.
Three rapid chirps every minute. Red light FLASHES.	Malfunction. CO Alarm needs to be replaced.	Make sure unit is plugged in securely. CO Alarms under warranty should be returned to manufacturer for replacement. See "Limited Warranty" for details.
CO Alarm goes back into alarm 4 minutes after you press the Test/Silence button.	CO levels are still potentially dangerous.	Refer to "If Your CO Alarm Sounds" for details on how to respond to an alarm. If anyone is feeling ill, EVACUATE your home immediately.
CO Alarm sounds frequently even though no high levels of CO are revealed in an investigation.	The CO Alarm may be improperly located. Refer to "Where to Install CO Alarms."	Relocate your Alarm. If frequent alarms continue, have home rechecked for potential CO problems. You may be experiencing an intermittent CO problem.

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

### LIMITED WARRANTY

BRK Brands, Inc. ("BRK") the maker of First Alert® brand products, warrants that for a period of 5 years from the date of purchase, this product will be free from defects in material and workmanship. BRK, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

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

BRK shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states, provinces, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty 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 Affairs Division at 1-800-323-9005, 7:30 AM to 5:00 PM, Central Standard Time, Monday through Friday. To assist in serving you, please have the model number and date of purchase available when calling. 303 Nelson Avenue, Neosho, MO 64850-8806.

**For your records, please record:**

**Date Purchased:** \_\_\_\_\_

**Where Purchased:** \_\_\_\_\_

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