IF YOUR CO ALARM SOUNDS

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

IF THE ALARM SOUNDS:

AWARNING

1. Operate the Test/Silence button to silence the alarm.

- 2. Call your emergency services, fire department or 911. Write down the number of your local emergency service here:
- 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 reenter 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' nstructions, 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:

AWARNING!

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

USING THE SILENCE FEATURES AWARNING!

NEVER disconnect the power to your CO Alarm to silence the horn—use the silence feature. Disconnecting the CO Alarm removes your protection! See previous page for details on responding to an alarm.

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 level, the unit will sound—repeating horn pattern: 4 beeps, a pause, 4 beeps, etc. Press and hold the Test/Silence button until the horn is silent.

Silence button on the initiating alarm (the unit with the flashing red light). If you press the Test/Silence on any other Alarm, it will only silence that unit, not the whole interconnected series. NOTE: After the 4-minute silence cycle, the CO Alarm re-evaluates present CO

To silence an interconnected series of Alarms, you must press the Test

levels and responds accordingly. If CO levels remain potentially dangerous—or start rising higher—the horn will start sounding again. While the CO Alarm is silenced:

If the CO Alarm...is silent for only 4 minutes, then starts sounding loudly—4 beeps, then a pause, 4 beeps, then a pause. Red light (LED) continues flashing... This means...CO levels are still potentially dangerous.

If the CO Alarm...remains silent... This means...unit has returned to normal operation.

The Silence cycle will last approximately 4 minutes.

SILENCING THE LOW BATTERY WARNING This silence feature can temporarily quiet the low battery warning "chirp" for

up to 8 hours if AC power is present. Press the Test/Silence button on the alarm cover. Once the low battery warning "chirp" silence feature is activated, the unit continues to flash the red light once a minute for 8 hours. After 8 hours, the low battery "chirp" will resume. Replace the battery as soon as possible, to maintain protection in the 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 2 days. 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

After approximately 2 days, the End of Life "chirp" will resume. After approximately 2-3 weeks the End of Life warning cannot be silenced.

LATCHING FEATURES

Alarm Latch is activated after an Alarm is exposed to alarm levels of carbon monoxide. This feature will only work with AC power. After CO levels drop below alarm levels, the Red LED will begin to flash On for 2 seconds and Off for 2 seconds. It will continue to flash or "latch" until you clear it by testing This feature helps emergency responders, investigators, or service technicians identify which unit(s) in your home were exposed to alarm levels of carbon

monoxide. This can help investigators pinpoint the source of CO Interconnected Alarms, Latching Alarm Indicator shows which Alarm(s) in the series were exposed to alarm levels of carbon monoxide. The Latching Alarm Indicator stays ON until you clear it, so it can alert you to a CO Alarm that occurred while you were away from home, even though CO

present in the air has dropped below alarm levels. Low Battery Latch is activated when the Alarm is in the "low battery condition". When this occurs, the red LED flashes 4 seconds On/2 seconds Off. This feature is designed to help you identify which Alarm needs to have the battery replaced. Although, the Alarm will sound the low battery chirp approximately once every minute, sometimes during the initial stages of "low battery", the Alarm will chirp in greater intervals than one minute, sometimes up to several hours, until the battery reaches a steady low battery level. This

WEEKLY TESTING

Push and hold the Test/Silence button until you hear an acknowledge chirp and a loud alarm sounds — 4 beeps, pause, 4 beeps. This sequence should last for 10 seconds. If the Alarm ever fails to test properly, replace it immediately. If the Alarm is not working properly, refer to "Limited Warranty"

ovative feature eliminates the frustration of waiting for and/or identifying

AWARNING!

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

REGULAR MAINTENANCE

and voids your warranty.

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. Replace the battery immediately when you see/hear the "Low Battery

The Low (or Missing) Battery Warning (CO5120PDBN): The horn will "chirp" once a minute and the word "bat" will flash on and off

REPLACING THE BATTERY **Choosing a replacement battery:** This unit requires one standard 9V alkaline battery. The following alkaline batteries are acceptable as replacements:

Duracell #MN1604 or MX1604; Eveready "Energizer" 522. These replacement batteries are commonly available at local retail stores

on the display.

IMPORTANT! Use only the alkaline or lithium replacement batteries listed. The unit may not operate properly with other batteries. Never use rechargeable batteries since

ACAUTION! 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! old cleaners, aerosol chemicals and other contaminants ca

affect the sensor. When using any of these materials near the CO Alarm, make sure the room is well ventilated.

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

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 pefore 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 babie egnant mothers, or elderly people can be more quickly and severely affected CO. If you experience even mild symptoms of CO poisoning, consult your

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 ca

POTENTIAL SOURCES OF CO IN THE HOME Fuel-burning appliances like:

portable heater, gas or wood burning fireplace, gas kitchen range or cooktop, gas clothes dryer. Damaged or insufficient water heater vent pipe, leaking chimney pipe or flue, or cracked

clogged chimney opening. Improper use of appliance/ device: operating a barbecue grill or vehicle in an enclosed area (like a garage or screened porch).

Transient CO Problems: "transient" or on-again-off-again CO problems car be caused by outdoor conditions and other special circumstances

- The following conditions can result in transient CO situations 1. Excessive spillage or reverse venting of fuel appliances caused by outdoor
- Wind direction and/or velocity, including high, gusty winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles). Negative pressure differential resulting from the use of exhaust fans. • Several appliances running at the same time competing for limited fresh air.
- Vent pipe connections vibrating loose from clothes dryers, furnaces, or • Obstructions in or unconventional vent pipe designs which can amplify
- the above situations. Extended operation of unvented fuel burning devices (range, oven, fireplace). 3. Temperature inversions, which can trap exhaust close to the ground. 4. Car idling in an open or closed attached garage, or near a home.

These conditions are dangerous because they can trap exhaust in your home Since these conditions can come and go, they are also hard to recreate during a CO investigation.

This CO Alarm is intended for residential use. It is not intended for use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for carbon monoxide detectors must be met. CO alarms may not waken all individuals. If children or others do not readily waken to the sound of the CO alarm, or if there are infants or family membe with mobility limitations, make sure that someone is assigned to assist them in the event of an emergency. CO Alarms will not work without power. This CO Alarm requires a continuous

supply of AC power, and a fresh, correctly installed 9V battery to power the battery back-up. The battery back-up is for emergency use only!

CO Alarms for Solar or Wind Energy users and battery backup power systems: AC powered CO Alarms should only be operated with true or pure sine wave inverters. Operating this CO Alarm with most battery-powered UPS (uninterruptible power supply) products or square wave or "quasi sine wave" nverters will damage the Alarm. If you are not sure about your inverter or

JPS type, please consult with the manufacturer to verify. This CO Alarm will not sense carbon monoxide that does not reach the sensor. This CO Alarm will only sense CO at the sensor. CO may be preser n other areas. Doors or other obstructions may affect the rate at which CO reaches the CO Alarm. For this reason, if bedroom doors are usually closed at night, we recommend you install a CO Alarm in each bedroom and in the

CO Alarms may not sense CO on another level of the home. For example, a CO Alarm on the second level, near the bedrooms, may not sense CO in the basement. For this reason, one CO Alarm may not give adequate warning. Complete coverage is recommended. Place CO Alarms on each level of the

CO Alarms may not be heard. The Alarm horn loudness meets or exceeds current UL standards of 85 dB at 10 feet (3 meters). However, if the CO Alarm is installed outside the bedroom, it may not wake up a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. This is especially true if the door is closed or only partly open. Even persons who are awake may not hear the alarm horn if the sound is blocked by distance or closed doors. Noise from traffic, stereo, radio, television, air conditioner, or other appliances may also prevent alert persons from hearing the alarm horn This CO Alarm is not intended for people who are hearing impaired. CO Alarms are not a substitute for a smoke alarm. Although fire is a source of carbon monoxide, this CO Alarm does not sense smoke or fire. This CO

Alarm senses CO that may be escaping unnoticed from malfunctioning furnaces, appliances, or other sources. Early warning of fire requires the installation of smoke alarms. CO Alarms are not a substitute for life insurance. Though these CO Alarms warn against increasing CO levels, BRK Brands, Inc. does not warrant or imply

in any way that they will protect lives from CO poisoning. Homeowners and CO Alarms have a limited life. Although the CO Alarm and all of its parts have

TROUBLESHOOTING GUIDE

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the CO 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 serious electrical shock, injury or death. The following guide can help you identify a potential problem with the

Problem	If the Alarm	You should
Red 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 9V battery is installed to power the battery back-up.
Red light flashes once a minute (horn is silent). (CO5120PDBN display reads "bat").	Alarm is not receiving AC power.	Unit is operating on DC battery back-up. Check the AC power supply.
The red light flashes and the horn "chirps" once a minute. (CO5120PDBN display flashes "bat").	Low battery warning.	Replace the 9V battery in the battery back-up. Disconnect AC power before changing the battery.
Once a minute, the alarm sounds 3 "chirps", and the red light flashes three times. (CO5120PDBN display reads "Err").	MALFUNCTION SIGNAL. Based on its Self Test diagnostics, the unit has detected a malfunction. The unit needs to be replaced.	Make sure a fresh 9V battery is installed. If unit still isn't functioning– REPLACE IT. Units under warranty should be returned to manufacturer for replacement. See "Limited Warranty" for details.
The light flashes (Red) and the horn sounds 5 "chirps" every minute. (CO5120PDBN display reads "End").	END OF LIFE SIGNAL. CO Alarm needs to be replaced.	Immediately replace the CO Alarm.
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 and call 911.
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.

BRK Brands, Inc., ("BRK") the maker of First Alert® brand products warrants that for a period of seven years from the date of purchase, this product will be free fror 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.

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

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. low to Obtain Warranty Service

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

For your records, please record: Date Purchased:Where Purchased: Date Installed:/Month/Year	Replace alarm 7 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 7 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 the alarm or remove the batteries until you get replacement.
First Alert® is a registered trademark of the First Alert Trust.	Printed in Mexico M08-0002-005 Q 09/10

HOW CAN I PROTECT MY FAMILY? A CO Alarm is an excellent means of protection. It monitors the air and sounds a loud alarm before carbon monoxide levels become threatening for average

nealthv adults. A CO Alarm is not a substitute for proper maintenance of home appliances. o help prevent CO problems and reduce the risk of CO poisoning:

 Clean chimneys and flues yearly. Keep them free of debris, leaves, and nests for proper air flow. Also, have a professional check for rust and corrosion, cracks, or separations. These conditions can prevent proper

air movement and cause backdrafting. Never "cap" or cover a chimney n any way that would block air flow. Test and maintain all fuel-burning equipment annually. Many local gas or oil companies and HVAC companies offer appliance inspections for

a nominal fee. • Make regular visual inspections of all fuel-burning appliances. Check appliances for excessive rust and scaling. Also check the flame on the burner and pilot lights. The flame should be blue. A yellow flame means fuel is not being burned completely and CO may be present. Keep the blower door on the furnace closed. Use vents or fans when they are vailable on all fuel-burning appliances. Make sure appliances are vented to the outside. Do not use grills or barbecue indoors, or in garages or

• Check for exhaust backflow from CO sources. Check the draft hood on an operating furnace for a backdraft. Look for cracks on furnace heat

• Check the house or garage on the other side of shared wall.

This user's manual contains important information about your CO Alarm's operation. If you are installing this CO Alarm for use by Keep windows and doors open slightly. If you suspect that CO is escaping into your home, open a window or a door. Opening windows and doors others, you must leave this manual—or a copy of it—with the end user can significantly decrease CO levels.

UNDERWRITERS LABORATORIES INC. UL2034 WHAT LEVELS OF CO CAUSE AN ALARM?

Underwriters Laboratories Inc. Standard UL2034 requires residential CO Alarms to sound when exposed to levels of CO and exposure times as described below. They are measured in parts per million (ppm) of CO over

UL2034 Required Alarm Points*:

• If the Alarm is exposed to 400 ppm of CO, IT MUST ALARM BETWEEN 4 and 15 MINUTES • If the Alarm is exposed to 150 ppm of CO, IT MUST ALARM BETWEEN 10 and 50 MINUTES.

• If the Alarm is exposed to 70 ppm of CO, IT MUST ALARM BETWEEN 60 and 240 MINUTES. Approximately 10% COHb exposure at levels of 10% to 95% Relative Humidity (RH). The unit is designed not to alarm when exposed to a constant level

of 30 ppm for 30 days. IMPORTANT!

CO Alarms are designed to alarm before there is an immediate life threat. Since you cannot see or smell CO, never assume it's not present.

 An exposure to 100 ppm of CO for 20 minutes may not affect average healthy adults, but after 4 hours the same level may cause headaches An exposure to 400 ppm of CO may cause headaches in average, healthy adults after 35 minutes, but can cause death after 2 hours.

Standards: Underwriters Laboratories Inc. Single and Multiple Station carbon nonoxide alarms UL2034. According to Underwriters Laboratories Inc. UL2034, Section 1-1.2: "Carbor monoxide alarms covered by these requirements are intended to respond to

the presence of carbon monoxide from sources such as, but not limited to, exhaust from internal-combustion engines, abnormal operation of fuel-fired appliances, and fireplaces. CO Alarms are intended to alarm at carbon monoxide levels below those that could cause a loss of ability to react to the dangers of Carbon Monoxide exposure." This CO Alarm monitors the air at the Alarm, and is designed to alarm before CO levels become life threatening This allows you precious time to leave the house and correct the problem. This is only possible if Alarms are located, installed, and maintained as described in this manual.

Gas Detection at Typical Temperature and Humidity Ranges: The CO Alarm is not formulated to detect CO levels below 30 ppm typically. UL tested for false alarm resistance to Methane (500 ppm), Butane (300 ppm), Heptane (500 ppm), Ethyl Acetate (200 ppm), Isopropyl Alcohol (200 ppm) and Carbon Dioxide (5000 ppm). Values measure gas and vapor concentrations in parts per million. Audible Alarm: 85 dB minimum at 10 feet (3 meters).

GENERAL LIMITATIONS OF CO ALARMS

passed many stringent tests and are designed to be as reliable as possible any of these parts could fail at any time. Therefore, you must test your CO

CO Alarms are not foolproof. Like all other electronic devices. CO Alarms have limitations. They can only detect CO that reaches their sensors. They may not give early warning to rising CO levels if the CO is coming from a remote part of the home, away from the CO Alarm

ADANGER

installation or operation of your CO Alarm. NOTE: It is not meant to be an all-inclusive list of all CO Alarm conditions. If you are experiencing a condition not covered in the next several pages, please contact Consumer

power inst may result in serious electrical shock, injury of death.			
Problem	If the Alarm	You should	
Red 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 9V battery is installed to power the battery back-up.	
Red light flashes once a minute (horn is silent). (CO5120PDBN display reads "bat").	Alarm is not receiving AC power.	Unit is operating on DC battery back-up. Check the AC power supply.	
The red light flashes and the horn "chirps" once a minute. (CO5120PDBN display flashes "bat").	Low battery warning.	Replace the 9V battery in the battery back-up. Disconnect AC power before changing the battery.	
Once a minute, the alarm sounds 3 "chirps", and the red light flashes three times. (CO5120PDBN display reads "Err").	MALFUNCTION SIGNAL. Based on its Self Test diagnostics, the unit has detected a malfunction. The unit needs to be replaced.	Make sure a fresh 9V battery is installed. If unit still isn't functioning– REPLACE IT. Units under warranty should be returned to manufacturer for replacement. See "Limited Warranty" for details.	
The light flashes (Red) and the horn sounds 5 "chirps" every minute. (CO5120PDBN display reads "End").	END OF LIFE SIGNAL. CO Alarm needs to be replaced.	Immediately replace the CO Alarm.	
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 and call 911.	
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.	

LIMITED 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 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 aw, 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 urisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 AM - 5:00 PM Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling. For Warranty Service return to: BRK Brands, Inc., 25 Spur Drive, El Paso, TX 79906

First Alert

USER'S MANUAL AC POWERED ARBON MONOXIDE ALARM HOW YOUR CO ALARM WORKS, Continued

68E

Alarm operating

on emergency battery back-up

(End)

End of Life -

Replace Alarm

The CO Memory Feature lets you check the highest level of CO recorded

1. Press and release the Test/Silence/Scroll button until the dash scrolls

2. Press and hold Test/Silence/Scroll button to display Memory CO level.

2a. Press and release the Test/Silence/Scroll button until the dash scrolls to

b. Press and hold the Test/Silence/Scroll button until the display shows "CLr.

NOTE: The highest CO level will be saved for 24 hours. DO NOT clear the

CO Memory reading if you plan to call someone to investigate a CO problem! Clear the CO Memory reading only after the investigator has checked your

home. If the investigator will not arrive within the 24 hour time period before

This CO Alarm includes "Smart Interconnect" which enables the Alarm to be

interconnected with other BRK Smoke and CO Alarms. When interconnected

to Smoke Alarms that go into alarm, this CO Alarm will sound the smoke horn

The National Fire Protection Association (NFPA) recommends that a CO Alarm

If your bedroom hallway is longer than 40 feet (12 meters), install 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.

◆ SUGGESTED AREAS FOR INSTALLING ADDITIONAL CO ALARMS

(6 meters), away from the furnace or fuel burning heat source

In a Multi-level Home—(same as above plus):

• 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

• 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

• For added protection, install an additional CO Alarm at least 20 feet

(6 meters) away from the furnace or fuel burning heat source.

WHERE CO ALARMS SHOULD NOT BE INSTALLED

· In garages, kitchens, furnace rooms, or in any extremely dusty, dirty

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 no

possible — in modular, mobile, or smaller homes, for example — it is recommended the CO 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

In extremely humid areas. This Alarm should be at least 10 feet (3 meter)

In areas where temperature is colder than 40° F (4° C) or hotter than 100° F

attics, uninsulated or poorly insulated ceilings, porches, and garages.

fresh air returns, or open windows. Blowing air may prevent CO from

In turbulent air, like near ceiling fans, heat vents, air conditioners

(38° C). These areas include non-airconditioned crawl spaces, unfinished

and thus reduce "unwanted" alarms. Unwanted alarms can occur if a CO

3. Remove all power; unplug the Alarm and remove the battery.

the unit automatically resets, be sure to write down the peak level

WITH DIGITAL DISPLAY

Alarm operating

Replace Alarm

during an alarm.

To check CO Memory:

to "MEMORY"

To clear CO Memory:

"CLEAR MEMORY."

INSTALLATION

at BOTH ends of the hallway.

In a Single-level Home

DO NOT locate this CO Alarm:

areas as much as possible.

Within 5 feet (1.5 meter) of any cooking appliance.

room, utility room or other source of high humidity.

or greasy areas.

USING THE PEAK CO MEMORY

Automatically resets after 24 hours.

SMART INTERCONNECT FEATURE

WHERE TO INSTALL CO ALARMS

ADDITIONAL FEATURES FOR MODEL CO5120PDBN

150

Levels of CO showr

in ppm if present.

S. L

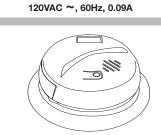
Alarm, Low

Battery or End

70, 150, 400" briefly

During initial power

n disnlav flashes



WITH BATTERY BACK-UP AND DIGITAL DISPLAY Model CO5120PDBN IMPORTANT! PLEASE READ CAREFULLY AND SAVE

UL 2034 M08-0002-005 **Q** 09/10 Printed in Mexico

Thank you for choosing BRK Brands, Inc. for your Carbon Monoxide Alarm leeds. You have purchased a state-of-the-art Carbon Monoxide Alarm lesigned to provide you with early warning of carbon monoxide. Kev features include:

Most Accurate Carbon Monoxide Sensor* Advanced electrochemical CO sensor technology.

alarms, unit will sound smoke horn pattern.

WITH BATTERY BACK-UP

Model CO5120BN

INTRODUCTION

Intelligent Sensing Technology is designed to help reduce unwanted or

Two Silence Features. Temporarily silence low battery chirp for up to eight hours before replacing low battery or silence an unwanted alarm for several Two Latching Features. Alarm Latch: Easily identifies initiating alarm even

after alarm condition has subsided. Low Battery Latch: Identifies which unit is in low battery condition. Smart Interconnect interconnects with most First Alert® and BRK branded

Dust Cover is included to keep the alarm clean during construction. Easy Installation/Maintenance features include a large opening in the mounting bracket for easy access to wiring. A battery pull tab keeps the battery fresh until the home is occupied. A Side Load Battery Drawer allows for easy battery replacement without removing the alarm from the ceiling or wall. End of Life Signal. Provides audible and visual confirmation alarm needs to

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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.

ACAUTION! This CO Alarm will only indicate the presence of carbon monoxide gas

at the sensor. Carbon monoxide gas may be present in other areas. AWARNING!

- This unit does not work without power. If the AC power fails, the battery back-up will power the alarm for at least 7 days provided the 9V battery is fresh and correctly installed. . The Silence Feature is for your convenience only and will not correct a CO problem. Always check your home for a potential proble 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. (The battery is meant for emergency backup only). Do not use in an extension cord or outlet controlled by a
- NEVER ignore any alarm. See "If Your CO Alarm Sounds" for more information on how to respond to an alarm. Failure to respond can result in injury or death. . Test this Carbon Monoxide Alarm once a week. If it 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.

UNDERSTANDING THE LIGHT AND HORN PATTERNS

Flash a minute with battery

LED flashes approximating

Low battery Latch Pattern

ALARM CONDITION LED flashes rapidly on the unit(s) Horn pattern:

LED flashes approximating

LED flashing approximately

Audio Off and LED flashing

2 seconds On, 2 seconds Off

after local alarm unless reset by Test/Silence button.

LED flashing 4 seconds On, 2 seconds Off.

NOTE: Latching features are not active during battery backup mode

synchronized with 3 chirps

synchronized with 5 chirps

every minute.

on the other Alarms in the series repeating on all will not flash CO Alarms

WARNING: When the AC power is Off, if the battery is dead or missing,

LED (Red Light)

the horn pattern

ALARM CONDITION LED flashes approximating

HOW YOUR CO ALARM WORKS



DURING TESTING

LOW OR MISSING

(Stand alone Alarm)

Series of CO Alarms)

ALARM SILENCE

SILENCE

ALARM LATCH

I OW BATTERY

1. Test/Silence Button or Test/Silence/Scroll Button (CO5120PDBN only)

2. POWER/ALARM Light (RED) 3. Air Vents 4. (Behind the Cover) Alarm Horn:

35 dB audible alarm for test, alarm, and unit malfunction warning. Digital Display (CO5120PDBN only)

once a minute

Horn pattern:

repeating

4 beeps, pause,

up to 8 hours.

Horn is Silent

Horn sounds

Horn sounds

3 chirps

5 chirps

 In direct sunlight. AWARNING! 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, Horn pattern: 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. 4 beeps, pause 4 beeps, pause

> 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

This CO Alarm alone is not a suitable substitute for complete

detection systems in places which house many people, like hotels

use, and may not provide adequate protection in non-residentia

BEFORE YOU BEGIN INSTALLATION

This unit 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. Read "Where to Install CO Alarms" and "Where Not To Install CO Alarms" before you begin installation.

AWARNING! This Alarm must have AC or battery power to operate. If the AC power fails, the battery back-up will power the Alarm for a short time if the 9V battery is fresh and correctly installed. If AC power

fails, and the battery is dead or missing, the Alarm cannot operate Make sure the alarm is not receiving excessive 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. Excessive noisy

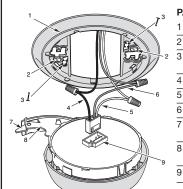
Find the pair of self-adhesive labels included with this CO Alarm • On each label write in the phone number of your emergency responder

ower may cause damage to your Alarm.

(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 esponsible for the installation, testing, servicing, or replacement of heating, entilation, air conditioning (HVAC) equipment, combustion appliances and equipment, and/or gas fireplaces or other decorative combustion equipment. Test the CO Alarm. Press and hold the test button on the cover until the



Mounting Slot and Screw* Locking Pins (break out of

Hot (Black) AC Wire

- Neutral (White) AC Wire Interconnect Wire (Orange)
- Lever to Open Battery Compartment
- Swing-Out Battery Quick-Connect Power

*Not Included

Tools you will need: Standard Flathead screwdriver

ADANGER!

ELECTRICAL SHOCK HAZARD. Turn off power to the area where you will install this unit at the circuit breaker or fuse box before begin allation. Failure to turn off the power before installation may result n serious electrical shock, injury or death. To install this unit:

HOW TO INSTALL YOUR CO ALARM

Remove the mounting bracket from the base. Position the screw slots on the mounting bracket over the screws in the junction box.

Tighten the screws. Using wire nuts, connect the power connector to the AC power AWARNING!

mproper 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. STAND ALONE ALARM ONLY:

the junction box.

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

Tuck the orange wire inside the junction box. It is used for interconnect only. INTERCONNECTED ALARMS ONLY:

wire on the power connector. Connect the white wire on the power connector to the neutral wire usually white) in the junction box Connect the black wire on the power connector to the hot wire (usual

Connect the orange wire on the power connector to the interconnect

Strip off about 1/2" of the plastic coating on the orange interconnect

wire in the junction box. Repeat for each unit you are interconnec Never connect the hot or neutral wires in the junction box to the orange interconnect wire.

Plug the power connector into the back of the CO Alarm. Position the base of the Alarm over the mounting bracket and turn The Alarm can be positioned over the bracket every 60°. Turn the unit

clockwise (right) until the unit is in place. Check all connections

compartment, and the other locks the CO Alarm to the mounting bracket. You can choose to use either feature independently, or use them both.

IMPORTANT!

an acknowledge chirp and the alarm sounds:

battery and test again. If it still does not alarm, replace the CO Alarm immediately. Using needle-nose pliers, detach



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

Insert a flathead screwdriver under the head of the locking pin, and gently pry it out of the battery compartment lock. (If you plan to relock

INSTALLATION, continued

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

INTERCONNECTED ALARMS ONLY: If you are interconnecting multiple Alarms, repeat Step 1-5 for each Alarm in the series. When you are finished, restore power

to the junction box. ADANGER! ELECTRICAL SHOCK HAZARD. Do not restore power until all Alarms are completely installed. Restoring power before installation is complete may

result in serious electrical shock, injury or death. 6. Make sure the CO Alarm is receiving AC power. Under normal operation, the red indicator light will shine continuously. If the red power indicator light does not light, TURN OFF POWER TO THE JUNCTION BOX and recheck

still does not light when you restore the power, the unit should be 7. ACTIVATING THE BATTERY BACK-UP

IMPORTANT! Activate the battery back-up by removing the "Pull to Activate Battery Back-Up" tab. You do not need to open the battery compartment and reposition the battery during installation. **DO NOT remove the battery** activation tab until AC power is turned on to conserve battery power

alarm sounds: 4 beeps, pause, 4 beeps, pause. In a series of interconnected Alarms, you must test each Alarm separately by pressing and holding the test button. Make sure all units alarm when each one is tested.

If any unit in the series does not alarm during testing, TURN OFF POWER and recheck connections. If it does not alarm when you restore power,

SPECIAL REQUIREMENTS FOR INTERCONNECTED CO ALARMS

Failure to meet any of the above requirements could damage the units and cause them to malfunction, removing your protection.

 AC and AC/DC CO Alarms can be interconnected. Under AC power all units will alarm when one senses CO. When power is interrupted only the AC/DC units in the series will continue to send and receive signals. AC powered CO Alarms will not operate.

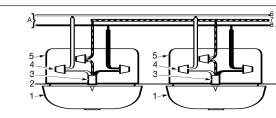
Interconnected units can provide earlier warning of a CO problem than stand alone units, especially if the problem starts in a remote area of the dwelling If any unit in the series senses CO, all CO and Smart Interconnect units will alarm. To determine which CO Alarm initiated an alarm, refer to the table.

Interconnected units will only work if they are wired to compatible units and

A maximum of 18 compatible Smoke, Heat or CO Alarms may be interconnected. No more than 12 of the 18 can be Smoke Alarms per

• 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. This type of wire is commonly available at Hardware and

code for further connection requirements.



A. Unswitched 120VAC 60 Hz source Maximum = 18 Alarms

4. Wire Nut 7. Interconnect Wire Junction Box 8. Hot Wire (Black) Neutral Wire (White)

These CO Alarms have two separate locking features; one locks the battery Tools you will need: • Needle-nose pliers • Standard Flathead screwdrive Both locking features use locking pins, molded into the mounting bracket

TO LOCK THE BATTERY COMPARTMENTS

Do not lock the battery compartment until you have activated the battery and tested the battery back-up. Activate the battery back-up by removing the "Pull to Activate Battery Back-Up" tab. Push and hold the

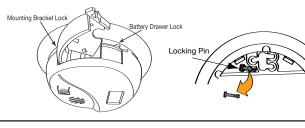


Push the locking pin through the black dot on the label on the back of the CO Alarm.

Once the CO Alarm is installed, you must disconnect it from the AC power

Disconnect the power connector by gently prying it away from the back

When replacing the battery, always test the CO Alarm before relocking the battery compartment.



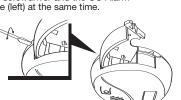
THE MOUNTING BRACKET LOCK

TO ACTIVATE THE BRACKET LOCK: 1. Using needle-nose pliers, detach one locking pin from the mounting bracket. Insert the locking pin into the



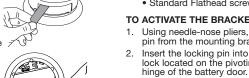
ADANGER!

Always discharge the branch circuit before servicing an AC or AC/DC



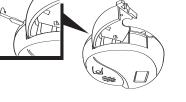
THE BRACKET LOCK:





locking pin's head will fit into a

AWARNING!



Insert the flathead screwdrive

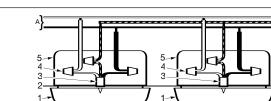


PARTS OF THIS CO ALARM Mounting Bracket

replace it immediately.

AWARNING!

all requirements are met. This unit is designed to be compatible with: **BRK Electronics**° and **First Alert**° Models 7010, 7010B, 7020B, SC7010B, SA520B, 9120, 9120B, SC9120B, 100S, SL177, SC7010BV, CO5120BN, CO5120PDBN, HD6135F, HD6135FB



1. CO Alarm

2. Ceiling or Wall

3. Power Connector

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

Using needle nose pliers remove one or both pins, depending on which locking features you use.

test button on the CO Alarm's cover until you hear



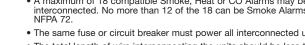
TO LINLOCK THE

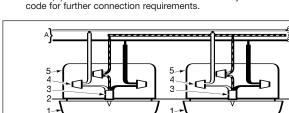
CO Alarm is installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or

the battery compartment, save the locking pin.) To relock the battery compartment, close the battery door and reinsert the locking pin in the

IMPORTANT!

nterconnect units within a single family residence only. Otherwise all house-nolds will experience unwanted alarms when you test any unit in the series.





THE BATTERY COMPARTMENT LOCK

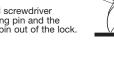
4 beeps, pause, 4 beeps, pause. If the unit does not alarm during testing, DO NOT lock the battery compartment! Install a new



BATTERY COMPARTMENT:

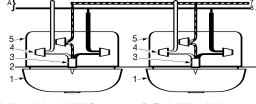
Remove the CO Alarm from the mounting bracket. If the unit is locked to the bracket, see the section "To Deactivate the Locking Feature."

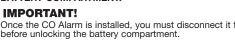
Reconnect the power connector to the back of the CO Alarm, reattach



Red LED Flashes the alarm pattern On Initiating CO Alarm On All Other CO Alarms Red LED Does Not Flash the alarm pattern

Electrical Supply stores



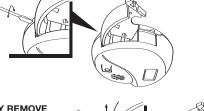


the CO Alarm to the mounting bracket, and restore the power.

• All wiring must conform to all local electrical codes and Articles 210 and 300.3 (B) of the National Electrical Code. Refer to your local building

 Standard Flathead screwdriver lock located on the pivoting

CO Alarm. First, turn off the AC power at the circuit breaker or fuse box. Next, remove the battery from Alarms with battery back-up. Finally, press and hold the test button.



lock, and pry the pin out of the lock

TO DEACTIVATE THE BRACKET LOCK:

Insert a flathead screwdriver between the mounting bracket pin and the mounting bracket.



TO PERMANENTLY REMOVE

2. Pry the CO Alarm away from the bracket by turning both the screwdriver and the CO Alarm counterclockwise (left) at the same time.

When you attach the CO Alarm to the mounting bracket, the

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

O Alarm is installed before removing it from the mounting bracket.

Failure to turn off the power first may result in serious electrical shock,