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Using your
LED Plus
keypad

System 238

System 238i

System 2316

System 2316i

Part Number 5-051-372-00

Rev B

C&K[®]
SYSTEMS

Congratulations

Thank you for purchasing this C&K alarm system. Your system is one of the most powerful and advanced alarm systems on the market today, designed to provide you with years of reliable operation.

This manual explains how to operate your alarm system. Basic operating instructions are also printed on the small label attached to the inside of your keypad(s) door.

If you have questions or need help with your alarm system, call:

If you have monitoring questions or in cases of accidental alarms, call:

(Alarm Company Name)

(Monitoring Station Name)



When calling the monitoring company, know the following:

My Account Number is: _____ My Password is: _____

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Getting acquainted

What your alarm system is...

Your alarm system is made up of a control panel and several detection devices like motion sensors, magnetic contacts, and so on. Specific areas of detection are called zones. Zones can be programmed to have different characteristics. Some zones may be 24-hour zones, that is, they remain armed even when the alarm system is off. Zones used for fire detection, for example, are always 24-hour zones. In addition, some zones can be programmed to allow bypassing. When you bypass a zone, you temporarily remove it from the alarm system. **Always remember, however, that bypassed zones are not protected.**

How your alarm system works...

When a detection device is triggered, the status of its zone goes from normal to FAULTED. If armed, the control panel responds by reporting an alarm condition on site — flashing keypad lights, sounding bells — and if programmed, by transmitting an alarm signal over the telephone wires to a central monitoring station. The monitoring station then dispatches the appropriate authorities.

Some of your system's operations require you to enter your personal identification number (PIN) on the keypad. These include ARMING and DISARMING.

Along with its many other features, your system can be programmed to ARM INSTANTLY or to ARM WITH TIME DELAY (i.e., after giving you time to leave the premises).

Getting acquainted

Each alarm system in the 2300 family is designed to meet the specific needs of a variety of applications. Systems 238 and 2316 are designed for applications requiring protection of eight and sixteen zones, respectively.

Some of the available features of your alarm system are also optional, and will only be installed if appropriate for your installation. In addition, some system features will require you to enter your personal identification number (PIN).

As you read through this manual, watch for boxes like these:

- If an optional feature has been installed in your system, its **OPTION INSTALLED** box will be checked.
- If a feature of your system requires you to enter your personal identification number, its **PIN REQUIRED** box will be checked.

OPTION
INSTALLED



PIN
REQUIRED



What the lights mean

	POWER LIGHT	READY LIGHT	ARMED LIGHT	SERVICE LIGHT	ZONES LIGHTS	REMARKS
AC FAILURE	off			onsteady		Powerfail. System on battery.
SYSTEM IS READY (ALL ZONES NORMAL)		onsteady				Readytoarm.
FAULTED ZONE WHILE DISARMED		off			onsteady	One or more zones are faulted.
SYSTEM IS ARMED (ALL PROTECTION ON)		off*	onsteady			*Ready light will be on until system is armed.
SYSTEM IS DISARMED (ALL PROTECTION OFF)		on*				*Ready light is on if all zones are normal.
SYSTEM IS ARMED WITH DELAY ZONES CONVERTED TO INSTANT		off	slow flash			Armed with * 7 # .
PERIMETER ARMED WITH DELAYS INTACT		slow flash	onsteady		slow flash*	Armed with * 4 # . *Flashing zones are bypassed.

What the lights mean

	POWER LIGHT	READY LIGHT	ARMED LIGHT	SERVICE LIGHT	ZONES LIGHTS	REMARKS
PERIMETER ARMED WITH DELAY ZONES CONVERTED TO INSTANT		slow flash	slow flash		slow flash	Armed with * 4 7 #. *Flashing zones are bypassed.
ZONE TROUBLE				slow flash	slow flash	Service and zone in trouble. Flash at the same rate.
ZONE(S) IS OR WAS IN ALARM		slow flash	on*		fast flash	An alarm has occurred on this zone. *Armed light is on if the system is armed.
ZONE BYPASSED		slow flash			slow flash	Ready and bypassed zone flash at the same rate.
LOW BATTERY	slow flash			on steady		Call for service.
BELL FUSE FAILURE				on steady		Call for service.
WATCHDOG RESET				slow flash		Panel has reset itself. System OK. To reset the Service Light, press * 1 #.
COMMUNICATIONS FAILURE				fast flash		Call for service.
PROGRAMMING MODE		slow flash	slow flash	slow flash		System is in programming mode.

What the sounds mean

SOUND

MEANING

2 beeps

- system armed or disarmed
- successful central station test or battery test

5 beeps

- wrong PIN number entered
- invalid function
- unauthorized command attempted
- error changing PIN number

continuous tone, beeping fast for last ten seconds

- entry delay time

continuous beeping, speeding up for last ten seconds

- exit delay time

2 second beep

- door chime
- ring back after closing report
- zone faulted during walk-test

chirping (1 second on, 4 seconds off)

- chirp alert warning: system is armed, but a Delay zone is faulted; you must disarm the system before entry delay expires or alarm will occur
- zone programmed to chirp is in alarm

continuous tone

- zone programmed for steady bell or siren is in alarm
- circuit malfunction (trouble on supervised loops only)

pulsed tone (2 seconds on, 2 seconds off)

- zone programmed for pulsed bell or siren is in alarm

Arming the system

TO ARM THE SYSTEM:

1 Make sure the green READY light is on.

- If the READY light is not on, the red ZONE lights will indicate which zone(s) are faulted. Faulted zones must be cleared or bypassed before the system can be armed. For more information, refer to the sections Bypassing Zones and After An Alarm.

2 Enter your PIN and push the # key.



- Your PIN number can be from two to five digits long.
- Don't pause for more than 5 seconds while entering the digits or the control panel will reject your PIN number.
- If you make a mistake while entering your PIN number, the keypad will beep five times. After the fifth beep, enter your PIN number again.

PIN
REQUIRED



Arming the system

3 Make sure the red ARM light comes on.

- The keypad will beep twice to confirm that the system is armed.

4 Exit through any TIME DELAY DOOR within _____ seconds.

- The exit delay time can be programmed from 10 seconds to 150 seconds.
- If the EXIT PRE-ALARM option is installed, the keypad will beep slowly until 10 seconds before the delay time expires, then rapidly for the last 10 seconds.
- Once the exit delay time has expired, the keypad will beep twice to confirm that the system is armed.

OPTION
INSTALLED

The rest of the ARMING THE SYSTEM section explains how to bypass zones before arming the system, as well as certain arming options our installer can install. However, it's important for you to remember that no matter how your system is programmed, **you will always disarm it in the same way: enter your PIN, then push the # key.**

Arming the system

INSTANT ARMING

Instant Arming converts all time delayed zones to **INSTANT** zones.

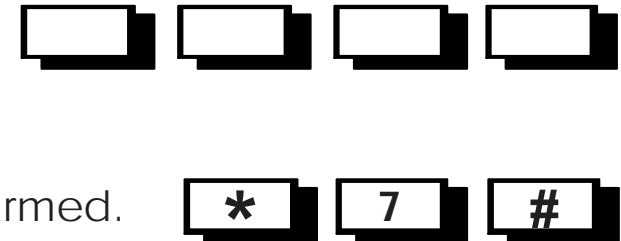
1 Make sure the green READY light is on.

2 Enter your PIN (if required), push the * key, enter the digit "7", then push the # key.

- The keypad will beep twice to confirm that the system is armed.
- The red ARM light will flash while the system is instant armed.

CAUTION: When the system is Instant Armed, you will not be able to enter through any perimeter door or walk through any protected area without setting off an alarm.

- Bypassing interior zones will allow you to move about freely inside the premises while the system is armed. Refer to BYPASSING ZONES on page 14.



PIN
REQUIRED



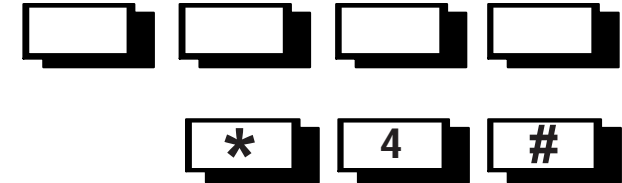
Arming the system

HOME ARMING

Home Arming arms perimeter zones, while bypassing interior zones (except 24-hour zones).

1 Make sure the green READY light is on.

2 Enter your PIN (if required), push the * key, enter the digit "4", then push the # key.



- The keypad will beep twice to confirm that the system is armed.
- Home Arming allows you to move about freely inside the premises while the system is armed.
- When the system is Home Armed, you can enter the premises without setting off an alarm through a delayed entry zone. (Don't forget to disarm the system after entry!)

PIN
REQUIRED



Arming the system

INSTANT HOME ARMING

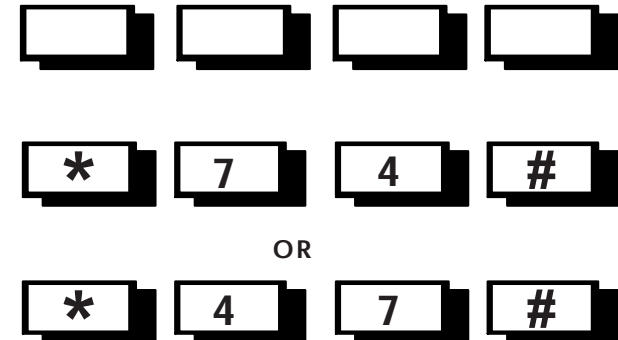
Instant Home Arming arms perimeter zones, and bypasses interior zones (except 24-hour zones). Entry time delays are converted to INSTANT.

1 Make sure the green READY light is on.

2 Enter your PIN (if required), push the * key, enter the digit "7", the digit "4", then push the # key.

- The keypad will beep twice to confirm that the system is armed.
- The red ARM light will flash while the perimeter zones are instant armed.

 **CAUTION:** When the system is Instant Home Armed, you will not be able to enter through any perimeter door without setting off an alarm.




PIN
REQUIRED



Arming the system

BYPASSING ZONES

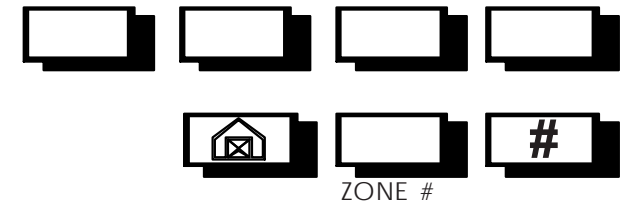
This procedure allows you to bypass one or more zones while your system is DISARMED¹.

 **NOTE:** System programming determines which PINs can bypass zones, also which zones can be bypassed. To learn if a zone can be bypassed, see the ZONE DESCRIPTION LIST on pages 41-42.

PIN
REQUIRED

1 Enter your PIN if required.

2 Push the  key, enter the zone to be bypassed, then push the # key.






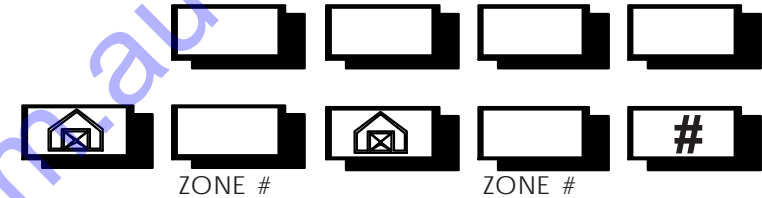
¹**NOTE:** Zones can be also be bypassed by remote programming. When remote programming is used, the system can either be armed or disarmed.

Arming the system

PIN
REQUIRED



- **To bypass more than one zone:** enter your PIN (if required), push the  key, enter the first zone to be bypassed, push the  key again, enter the next zone to be bypassed, and so on. When the last zone to be bypassed has been entered, push the # key.
- To indicate that zones have been bypassed, the READY light and the ZONE light will flash slowly. The red ZONE lights of all bypassed zones will flash to remind you that **bypassed zones are not protected**.
- **The procedures for adding a bypass and removing a bypass are identical.** To remove a bypass: enter your PIN, push the  key, enter the zone from which the bypass is to be removed, then push the # key.
- When you have finished bypassing zones, arm the system by entering your PIN and pushing the # key.



NOTE: Disarming your alarm system **REMOVES** all bypasses (except 24-hour zones).

Arming options

Your alarm system has been programmed for one of the following three arming types:

- OPTION INSTALLED** **GOOF-PROOF ARMING**
If any zone other than a 24-hour zone is faulted (open window, malfunctioning sensor, etc.), your system will not arm. You will not be able to arm the system until the faulted zone is cleared or manually bypassed.
- OPTION INSTALLED** **FORCE ARMING**
Any zone (except for 24-hour zones) that is violated after the EXIT DELAY time has expired will be automatically bypassed until the system is disarmed.
Warning: bypassed zones are not protected.

OPTION
INSTALLED

CHIRP ALERT

The system will arm even if delay zones are faulted at the time of arming. If a zone is still faulted when the EXIT DELAY time expires, the bell/siren will begin to chirp. The chirping will continue for the duration of the ENTRY DELAY time. You must re-enter the premises and disarm the system before the ENTRY DELAY time expires or an alarm will occur.

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Disarming the system

TO DISARM THE SYSTEM:

1 Enter only through a TIME DELAY door.

- If the ENTRY PRE-ALARM option is installed, the keypad will sound constantly until 10 seconds before the delay time expires (or the panel is disarmed), then beep rapidly for the last 10 seconds.

OPTION
INSTALLED

2 Enter your PIN within _____ seconds and push the # key.



3 Make sure the red ARM light on the keypad goes off.

- If the ARM light does not go off, wait for the keypad to beep five times, then enter your PIN again.

PIN
REQUIRED



After an alarm

AFTER AN ALARM OCCURS:



1 Enter your PIN and push the # key.



- This will silence the siren/bell and disarm the system.
- The red ZONE lights on the keypad will flash to help you remember where the violations occurred.

2 If this is a false alarm and no emergency response is needed, call our central station IMMEDIATELY at  _____ to cancel the alarm.

- Write down the number of the triggered zones to help us service you.

3 Clear the alarm memory and red ZONE lights by pushing the * key, entering the digit "1", then pushing the # key.



Options

OPTION
INSTALLED

24-HOUR MONITORING

With this option installed, your alarm system will transmit alarm signals to our central station.

OPTION
INSTALLED

EMERGENCY KEY

Holding the  key down for three seconds will trigger an alarm. The keypad will beep twice to confirm the alarm condition.



NOTE: The System 238 and System 2316 have not been investigated by Underwriters Laboratories for compliance with UL1637, Home Health Care Signalling Equipment.

OPTION
INSTALLED

FIRE KEY

When this option is installed, holding down the  key for three seconds will trigger an alarm. The keypad will beep twice to confirm the alarm condition.





OPTION
INSTALLED

POLICE/PANIC KEY

When this option is installed, holding down the  key for three seconds will trigger an alarm. The keypad will beep twice to confirm the alarm condition.

OPTION
INSTALLED

DURESS ALARM (238 and 2316 ONLY)

Should an intruder force you to turn your security system off or on, you can send a silent DURESS signal to our central station by adding or subtracting "1" from the last digit of your PIN. For example, if your PIN is 1-2-3-4, entering 1-2-3-**3** OR 1-2-3-**5** will trigger a silent alarm. Your system will appear to be operating normally. There will be no indication of an alarm condition.

- If your PIN ends with a "0", entering "9" or "1" instead of the "0" will trigger a DURESS signal.
- If your PIN ends with a "9", entering "8" or "0" instead of the "9" will trigger a DURESS signal.

Options

OPTION
INSTALLED

DURESS ALARM (238i and 2316i ONLY)

Should an intruder force you to turn your security system off or on, you can send a silent DURESS signal to our central station by entering **User Code 7** - a code designed exclusively for a DURESS signal. Your system will appear to be operating normally. There is no indication of an alarm condition.

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GUEST COMBINATION

The SYSTEM 238 can store up to 8 PINs, and the SYSTEM 2316 can store up to 32 PINs. In both systems, PIN #8 can be programmed as a GUEST COMBINATION that will only be valid for a specified number of successive days. The countdown of days begins the first time the GUEST COMBINATION is used.

OPTION
INSTALLED

NUMBER OF DAYS GUEST COMBINATION IS VALID

- Once the time expires, the GUEST COMBINATION will have to be reprogrammed before it can be used again.

RING BACK AFTER CLOSING

When this option is installed, the bell/siren will sound for two seconds after the system is armed.

OPTION
INSTALLED

- If your system is programmed to send closing reports to a monitoring station, ring back occurs after the signal is sent and acknowledged; otherwise, ring back occurs when the exit delay expires.

CHANGING A SYSTEM 238 AND 238i USER PIN

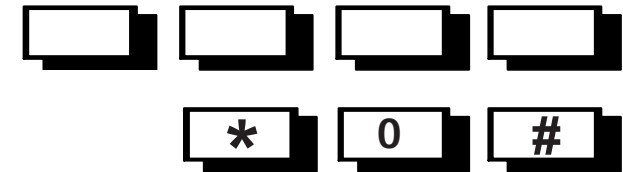
User 1 can use his Master PIN to change the PINs of Users 1 - 8.

MASTER PIN
REQUIRED



1 Enter your Master PIN, push the * key, enter the digit "0", then push the # key.

- The READY, ARMED and SERVICE lights will flash slowly to indicate programming mode.



2 Enter the new PIN and push the # key.

- The new PIN can be from two to five digits long, **but must start with the same first digit as the old PIN.**



3 Enter the new PIN again and push the # key.

If the new PIN is accepted, the keypad will beep twice. If you make a mistake while programming, or if the system rejects the new PIN, the keypad will beep five times.



4 Exit the programming mode by pushing the * key, then the # key.



5 Make sure the new PIN works.

After leaving the programming mode, Arm and Disarm your system to ensure that the new PIN functions properly.

www.msealarms.com.au

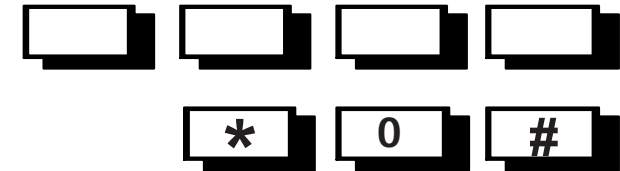
DELETING A USER PIN - SYSTEM 238 AND 238i

User 1 can use his Master PIN to delete the PINs of Users 2 - 8.

MASTER PIN
REQUIRED



- 1 Enter your Master PIN, push the * key, enter the digit "0", then push the ENTER key.**
 - The READY, ARMED and SERVICE lights will flash slowly to indicate programming mode.
- 2 Enter the User number (2 - 8) you wish to delete, and push the # key.**
- 3 Enter the User number you wish to delete (again), and push the # key.**
- 4 Exit the programming mode by pushing the * key, then the # key.**



CHANGING A SYSTEM 2316 AND 2316i USER PIN

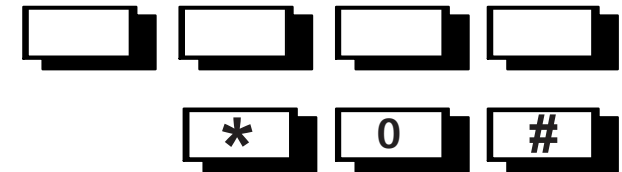
User #1 can use the Master PIN to change the PINs of Users 1 - 32 (See Below).

MASTER PIN
REQUIRED



- 1 Enter your Master PIN, push the * key, enter the digit "0", then push the # key.

- The READY, ARMED and SERVICE lights will flash slowly to indicate programming mode.



- 2 Enter the User number (1 - 32) and push the # key.



- 3 Enter the new PIN and push the # key.

- The new PIN can be from two to five digits long.



NOTE: On System 2316i, User Code #32 is reserved for special functions using the Optional Relay Output Module.

Options

- 4 Enter the new PIN again and push the # key.**



If the new PIN is accepted, the keypad will beep twice. If you make a mistake while programming, or if the system rejects the new PIN, the keypad will beep five times.

- 5 Exit the programming mode by pushing the * key, then the # key.**



- 6 Make sure the new PIN works.**

After leaving the programming mode, Arm and Disarm your system to ensure that the new PIN functions properly.

DELETING A USER PIN - SYSTEM 2316 AND 2316i

User 1 can use his Master PIN to delete the PINs of Users 2 - 32 (See Note pg. 27).

MASTER PIN
REQUIRED



1 Enter your Master PIN, push the * key, enter the digit "0", then push the # key.

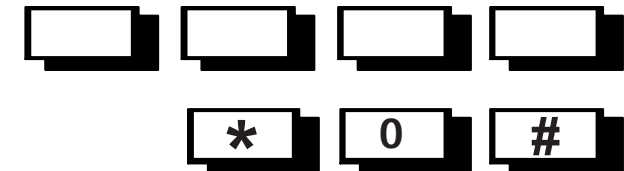
- The READY, ARMED and SERVICE lights will flash slowly to indicate programming mode.

2 Enter the User number and push the # key.

3 Enter zero and push the # key.

4 Enter zero (again) and push the # key.

5 Exit the programming mode by pushing the * key, then the # key.



OPTION
INSTALLED



RESETTING SMOKE DETECTORS

When a smoke detector is triggered, the red ZONE light of the zone where it's located will come on, and the bell/siren will sound.

Before you do anything else, evacuate the building. Don't go back inside until you're sure it's safe.

When it's safe to do so, you can reset the smoke detectors by doing the following:

Push the * key, enter the digit "6", the digit "2", and push the # key.



OPTION
INSTALLED

DOOR CHIME

When this option is installed, the keypad will beep for two seconds each time a designated zone is faulted.

To turn the Door Chime on and off:

**Push the * key, enter the digit "5",
then push the # key.**



OPTION
INSTALLED

STANDBY BATTERY

Should there be a loss of AC power, the green POWER light on the keypad will go out, and your alarm system will switch to its standby battery. If an AC power failure lasts for more than 15 minutes, the yellow SERVICE light on the keypad will come on.

- **The standby battery should be replaced every four to six years** with a rechargeable 12 volt, 6.5 Ah, sealed lead-acid battery (such as C&K Model 1265).

Testing your system

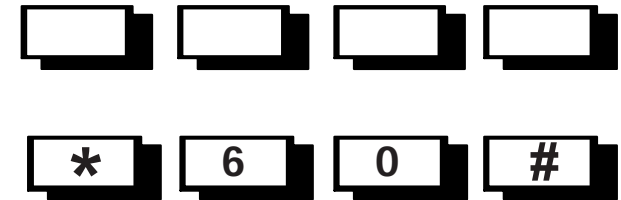
LOCAL SYSTEM TEST

This option allows on-site testing of each zone in your system.

To initiate the LOCAL SYSTEM TEST:

Enter your PIN (if required),
push the * key, enter the digit "6",
the digit "0", then push the # key.

- Once the keypad lights go out, the system will be ready for testing. Walk through the areas protected by motion sensors; open and close protected doors and windows. Each time a zone is faulted, its corresponding red ZONE light on the keypad will begin flashing, and the keypad will chime.
- To exit the system test, push any key.



WARNING: Your alarm system will not report alarms during the LOCAL SYSTEM TEST.

Testing your system

OPTION
INSTALLED

STANDBY BATTERY TEST

Your alarm system can be programmed to automatically test its standby battery every 24 hours. During the test, AC power is turned off in order to monitor the battery under load.

- To manually test the standby battery, push the * key, enter the digit "6", the digit "4", then push the # key.



- The standby battery test takes 2 minutes. During the test, the green AC light will be off.
- If the battery is okay, the keypad will beep twice. If the battery is low or dead, the POWER light will flash slowly, the SERVICE light will be on steady, and the keypad will beep five times.

OPTION
INSTALLED

BELL/SIREN TEST

To test the bells/sirens in your security system:

Enter your PIN (if required), push the * key, enter the digit "6", the digit "3", then push the # key.



- The bell/siren and keypads will sound for 3 seconds.

PIN
REQUIRED

Testing your system

OPTION
INSTALLED

CENTRAL STATION TEST

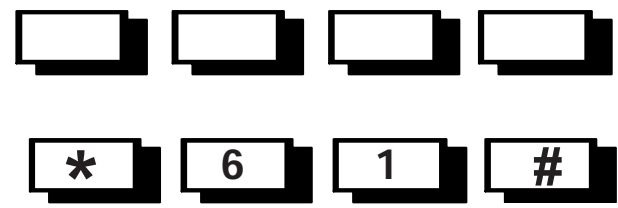
This option tests the reporting capability of your system by sending a test message to the central station. Weekends are the best time for the CENTRAL STATION TEST. To schedule one, call our central station at:

CENTRAL STATION 

To initiate the CENTRAL STATION TEST:

PIN
REQUIRED

**Enter your PIN (if required),
push the * key, enter the digit "6",
the digit "1", then push the # key.**



- If the test message was successfully transmitted to the central station, the keypad will beep twice.
- If the test message was not successfully transmitted to the central station, the keypad will beep five times, and the SERVICE light will flash rapidly. Call our Service Department for assistance.

Telephone trouble

IF YOU HAVE TELEPHONE TROUBLE:

First, unplug the control panel from its telephone jack to determine if the alarm system is causing the trouble.

The phone jack is located _____.

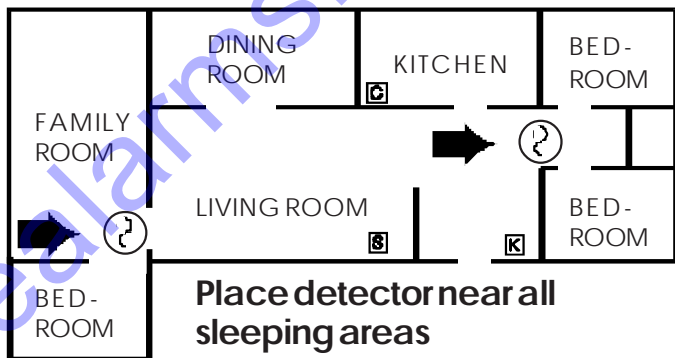
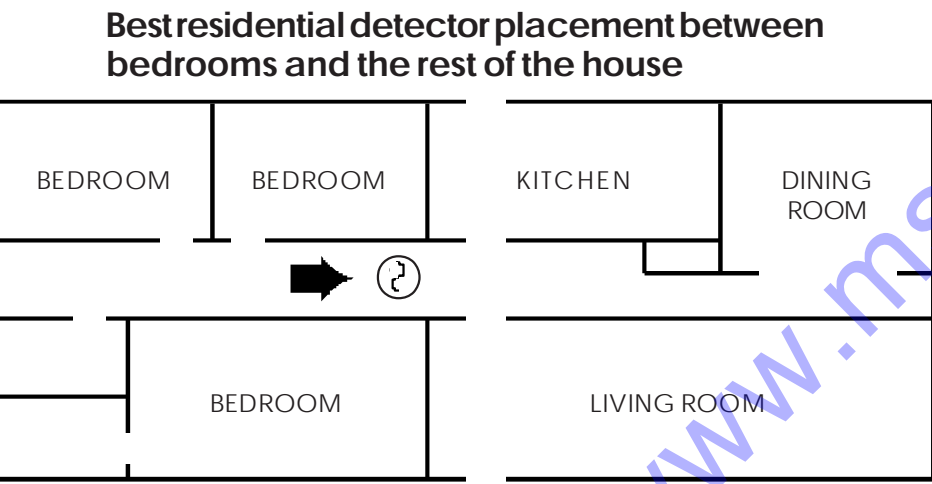
If the trouble goes away when you unplug the control, call **us** for service. If you still have telephone trouble after unplugging the alarm system, plug the system back in, then call your **telephone company**.







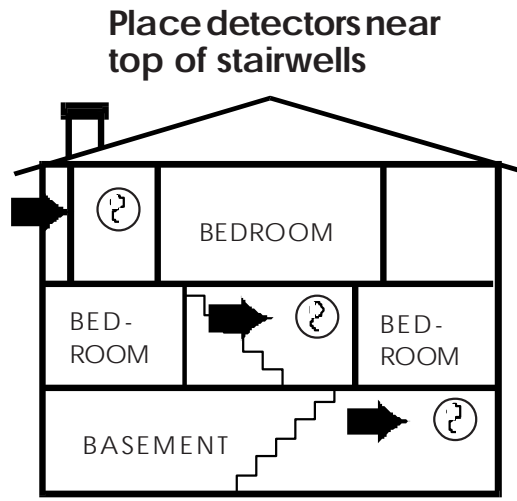
NOTE: If your telephone system is serviced, make sure to test your alarm system to insure that it has not been disconnected from the telephone network.

Smoke detector placement

We subscribe to the recommendations for the number and placement of smoke and/or heat detectors found in the National Fire Protection Association's *Standard #72, Chapter 2* (N.F.P.A. Batterymarch Park, Quincy, MA 02269). For the best early warning, fire detection devices should be installed in all rooms and areas of the premises. A smoke detector should be installed in each separate sleeping area, in the vicinity of bedrooms. (In new construction, a smoke detector shall be installed in each separate sleeping room.) Heat or smoke detectors should be installed in living rooms, closets, utility and storage rooms, basements, and attached garages.



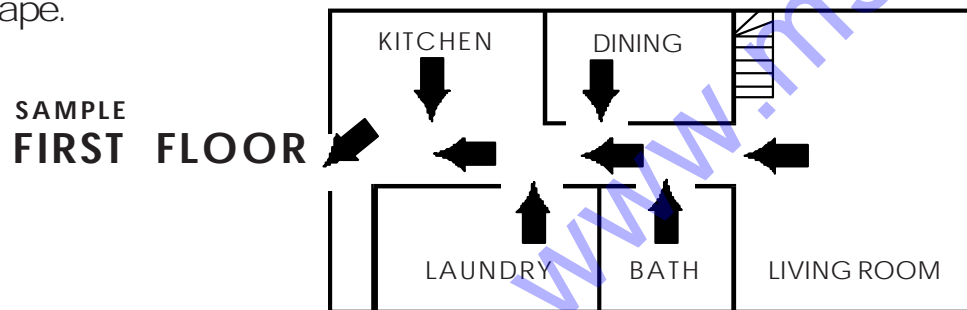
-  = SMOKE DETECTOR
-  = CONTROL
-  = SOUNDER
-  = KEYPAD



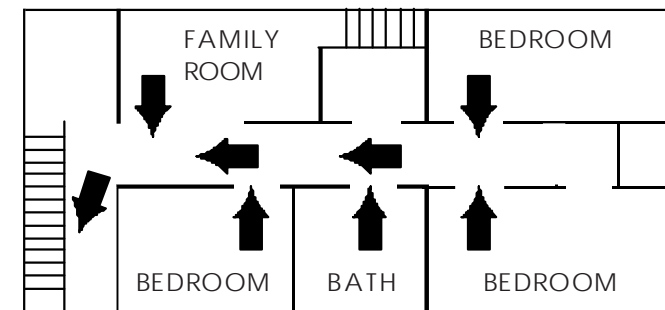
Emergency evacuation

Every household should establish and regularly practice an escape plan in the event of a fire. The following steps, recommended by the National Fire Protection Association, can be used as a guide in developing your own emergency plan.

- Plan on your detector or alarm system sounders waking all occupants.
- Determine two means of escape from each room, especially the bedrooms, since most fires occur at night when everyone is asleep. One escape path should lead to a door that permits normal exit from the house. The other may be an easily opened window (used if the primary escape path is blocked).
- Sketch a floor plan, showing doors, windows, stairs, and rooftops that can be used for escape. Indicate escape routes for each room (see examples below). Post copies of the sketch in each room. Remember to keep all escape routes free from obstruction.
- Keep all bedroom doors shut while the occupants are asleep. This will prevent deadly smoke from entering the rooms while you escape.
- Establish a meeting place outdoors, away from the house, where everyone can gather and account for those missing. Choose someone to notify the authorities. Choose someone to ensure that nobody returns to the house. **Many die going back inside.**
- Escape quickly. But don't panic.
- Before you open a door, check to see if it's hot. If it is hot, don't open it. Use an alternate escape route. Even if the door is cool, use your shoulder to open it cautiously. Be ready to slam it closed if heat or smoke rushes in.
- When moving through a smoky area, stay as close to the floor as possible. Crawl and hold your breath.



SAMPLE SECOND FLOOR



Definitions

ALARM

A condition that occurs when the detection devices in a zone are triggered after the system is armed.

ALARM MEMORY

Alarm conditions are stored in memory until cleared.

BYPASS

To take a zone out of the circuit. Bypassing malfunctioning zones allows the rest of the system to be armed. Bypassing interior zones allows freedom of movement inside the premises, while leaving outer zones armed. Bypassed zones are not protected.

CENTRAL STATION

The office that the alarm system calls when there is an alarm. Signals sent to the central station contain information about the nature of the alarm condition, allowing the dispatcher on duty to appropriately respond.

ENTRY DELAY

The time you have to enter the premises through a designated DELAY DOOR and disarm the panel (before an alarm occurs). The delay time is programmable from 10 seconds to 150 seconds. [NOTE: if this option is programmed for *Long Delay*, the delay will be doubled (from 20 to 300 seconds).]

EXIT DELAY

Once the system is armed, the time you have to exit the premises through a DELAY DOOR (before an alarm occurs). The delay time is programmable from 10 seconds to 150 seconds.

FAULT

A trouble condition that occurs when the detection devices in a zone are violated or malfunctioning while the system is disarmed.

GRADE "A"

System that provides supervision of the transmitter or initiating devices (i.e., detection devices and wiring).

PERSONAL IDENTIFICATION NUMBER (PIN)

The combination used to arm and disarm the control panel, and to access any of the special functions that require a combination. PIN numbers can be from two to five digits long.

ZONE

One of the protected areas in your premises.

24-HOUR ZONE

A zone that is always active, whether the system itself is armed or disarmed. FIRE, POLICE, and EMERGENCY zones are usually 24-hour zones. Alarm conditions on these zones are cleared by entering a valid PIN number.

THE LIMITATIONS OF YOUR ALARM SYSTEM

While your alarm system is reliable and sophisticated, it does not offer guaranteed protection against burglary or fire. Any alarm system, whether commercial or residential, is subject to compromise or failure-to-warn for a variety of reasons. These include:

- Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device.
- Intrusion detectors, smoke detectors, and many other detection devices will not operate without power. Devices powered by AC will not work if their AC power supply is off for any reason and their back-up batteries are missing, dead, or improperly installed.
- Alarm warning devices such as sirens, bells, and horns may not alert people or wake up sleepers if they are located on the other side of closed or partly closed doors. If warning devices are on a different level of the residence from the bedrooms, they are less likely to waken or alert people inside the bedrooms.
- Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service, and are subject to compromise by sophisticated means of attack.
- Smoke detectors used in conjunction with the alarm system may not sense fires that start where smoke cannot reach the detectors, such as in chimneys, walls or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level of the residence or building. A second floor detector, for example, may not sense a first floor or basement fire. Finally, smoke detectors have sensing limitations. No smoke detector can sense every kind of fire every time. In general, detectors may not always warn you about fires caused by carelessness and safety hazards, like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, arson, etc.
- The most common cause of an alarm system not functioning properly when an intrusion or fire occurs is **inadequate maintenance**. Your alarm system should be tested weekly to make sure all detection devices are operating properly. Your control panel and keypads should be tested as well.
- Installing an alarm system may make you eligible for lower insurance rates, but an alarm system is not a substitute for insurance. Homeowners, property owners, and renters should continue to insure their lives and property.

Test procedure index

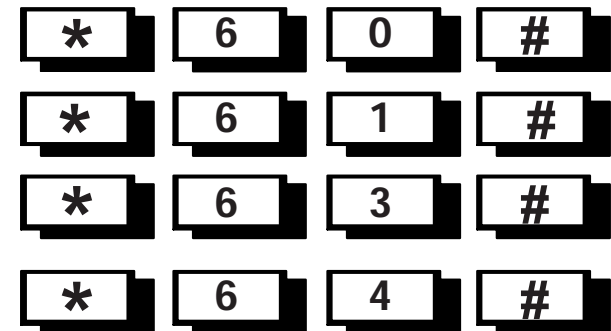
As required by UL Standard 1023, your alarm system is a Grade "A" system (see definition on page 38).

Alarm system malfunctions and failures are caused most often by INADEQUATE MAINTENANCE.

Your alarm system should be tested weekly to make sure that all detection devices are working properly. In addition, if your system is being monitored, you should periodically test its ability to transmit signals to our central station.

These tests should be performed weekly:

- LOCAL SYSTEM TEST: Enter PIN (if required), then
- CENTRAL STATION TEST: Enter PIN (if required), then
- BELL/SIREN TEST: Enter PIN (if required), then
- STANDBY BATTERY TEST:



Refer to pages 32-34 for further information on test procedures.

Zone description list

ZONE

LOCATION

BYPASS

YES

NO

System: 238 / 2316

1

2

3

4

5

6

7

8

www.msealarms.com.au

Zone description list

ZONE

LOCATION

BYPASS

YES

NO

9

10

11

12

13

14

15

16

System: 2316

www.msealarms.com.au

FCC NOTICE

WARNING: This device is intended to be installed by a professional alarm installer.

The user shall be cautioned that changes or modifications not expressly approved by C&K SYSTEMS could void the user's authority to operate the equipment.

FCC Rules PART 15

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the radio/television antenna.

- Connect the AC transformer to a different outlet so that the control panel and radio/television are on different branch circuits.

- Relocate the control panel with respect to the radio/television.

- Consult the dealer or an experienced radio/television technician for help.

FCC Rules PART 68

This equipment has been tested and found to comply with Part 68 of the FCC Rules. On the left outside panel of the can is a label that contains the FCC registration number and the Ringer Equivalence Number (REN) for this equipment. This information must be provided to your telephone company, if requested. The REN may be used to determine the maximum number of devices which may be connected to your telephone line and still have all devices ring properly when your number is called. The maximum sum of all devices should not exceed 5. This number may be different in your area. Contact your local telephone company to determine the maximum REN for your calling area.

Should you experience trouble with the telephone lines, disconnect the panel from the line to determine the source of the trouble. If it is determined that the control panel is malfunctioning, discontinue its use until the malfunction has been corrected. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telephone company cause to request the user to disconnect the equipment. Repairs to this equipment should be made by an authorized agent of C&K SYSTEMS, Inc. Contact your local alarm installation company for service.

Should this equipment cause harm to the telephone system, the telephone company may temporarily discontinue your service. If possible, they will provide you with advance notice. Otherwise they will notify you as soon as possible. The telephone company will also advise you of changes in its facilities, equipment, operations or procedures which could affect the operation of your equipment, allowing you the opportunity to maintain uninterrupted service. You will also be advised of your right to file a complaint with the FCC.

This device must not be used on party lines or coin operated phone lines.

Industry Canada

NOTICE: The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. Industry Canada does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Should you experience trouble with the telephone lines, disconnect the panel from the line to determine the source of the trouble. If it is determined that the control panel is malfunctioning, discontinue its use until the malfunction has been corrected. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telephone company cause to request the user to disconnect the equipment. Repairs to this equipment should be made by an authorized agent of C&K SYSTEMS, Inc. Contact your local alarm installation company for service.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all devices does not exceed 100.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class B prescrites dans le Règlement sur le brouillage radioélectriques édicté par Industrie Canada.

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