

SECURITY AND HOME AUTOMATION
OWNER'S MANUAL



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Welcome

You have taken an important first step in protecting your home by installing a security system. Now it's time to take the next step: Learning to use your system so it provides you with the best possible protection from intrusion, fire, furnace failure, and medical and other emergencies.

Your security system offers a remarkably high level of protection. But high-level protection does not mean hard-to-use protection. In fact, using your security system is as easy as using a microwave oven. Just take a little time to review the user material and familiarize yourself with the features and functions of your security system.

These basic steps will help make learning and using your system more enjoyable:

- Step 1 Watch your Owner's Video. It's a good idea for your family, neighbors, or others who will use the system to also watch this easy-to-follow instructional video.
- Step 2 Have your installer demonstrate how to use your security system and then watch as you practice using the system.
- Step 3 Take some time to read through this manual. Pay particular attention to anything from the video or your installer's demonstration that raised a question in your mind. Some users find this manual most effective by reading it cover to cover. Others simply locate specific topics as needed in the Contents and/or Index.

After you have completed these steps keep this manual handy in case you have any questions about using your security system.

Note

This is a UL Grade A (supervised) security system.

Section 1: Working with Your New Security System

What You Need to Do

You may have installed this security system simply to prevent break-ins and theft. However, your new security system can protect you and your home from many other emergencies. Plus, this security system lets you monitor and control conditions in your home or business even when you are away.

As with any new relationship, life with your new security system may seem a bit awkward at first. To effectively use your security system, you need to develop a few simple habits:

- Check for open doors and windows before leaving.
- Remember to arm your system and then gather your things and exit before the exit delay time expires.
- Remember to disarm your system within the entry delay time when you return.
- Respond to beeps, light indicators, and voice announcements from your system, which may indicate some kind of problem.

You will quickly become aware of the benefits these few simple habits will bring you and will incorporate your security system seamlessly into your everyday life.

What Your Security System Can Do

Your security system provides several options for creating the security and control environment you need in your home. How you use the system is up to you. Regardless of the features you choose, you will find that your security system dramatically enhances your lifestyle.

Here are just a few of the ways you can use the features of your security system.

Special Note:

Some features of this security system are optional and are available from your security consultant.

Automatic Lighting

You can control the lights inside and outside of your home by plugging them into wireless devices called lamp modules. For example, the system turns selected lights on when you enter, allowing you to see your way to the telephone or touchpad to disarm the system. After you arm your system, selected lights remain on for awhile and then automatically turn off after 5 minutes. During a fire, selected lights turn on and stay on to help you safely exit. During an intrusion, lights flash to scare off the intruder and draw attention from the outside.

Heating & Air Control

If you have installed the energy saver feature, you can monitor and control the temperature of your home. For example, using a touch-tone telephone, you can call your system and adjust the temperature before you leave work. By the time you arrive home, your house will be at a comfortable temperature. You can also set high and low temperature limits. If your heating or air conditioning unit malfunctions while you are away, your security system notifies the central station when the temperature has reached either limit, before pipes freeze or pets are harmed by extreme heat. You can call to check the temperature of your home or even your lake cabin when you aren't there to make sure the temperature is where you want it.

Sensor Groups

The sensors in your system make up different “groups,” and various sensor groups react differently depending on how they are programmed. Certain sensors automatically trigger a call to the central monitoring station immediately after being set off, or “tripped.” Other sensors trigger a call to the central monitoring station only after being tripped twice within a certain time period. Some sensors react silently and other sensors allow you to set entry and exit delays. And, there are “local-only” sensors that sound sirens at your home, but do not send a call for help. Following are some of the useful ways you can use various sensor groups in your home.

Monitor “Off-Limits” Areas of Your Home

Many areas in your home can be hazardous to children. Using local-only sensors, you can monitor certain areas such as liquor, gun, and medicine cabinets and even your swimming pool. If the pool gate or monitored cabinet door is opened, a siren beeps. The beeping stops when the gate or door is closed. You can also use this sensor group to alert you to cars approaching your home from the driveway, to monitor

your mailbox so you know when the mail arrives, and as a wireless doorbell.

Protect Private Business Information

You can control accessibility to private documents or money drawers. For example, sensors could be set to beep any time the safe door is opened during business hours. You can also assign up to 16 different system access codes to users. Then, if you choose to receive opening and closing reports from your central monitoring station, you can check employee arming and disarming procedures. If your system is not properly armed, you can be called. And, if normal opening procedures aren't followed, the police can be sent.

If your home has a security gate covering the front door and windows, you may choose to put a sensor on the gate to sound a local siren if someone shakes the gate to scare them away but not to call the central station. If the intruder continues to break in, other sensors protecting the front door and windows would call the central monitoring station.

Set Doors/Windows for Entry/Exit

Entry and exit door sensors can be set to one of three delays, depending on how accessible your doors are to your touch-tone telephone or touchpad. The delays should be set to give you enough time to get in and out of your house, but not allow an intruder to sneak in behind you. You may want a short delay on the door leading from the garage to the house and a little longer delay on the overhead garage door. You can have an even longer delay on the driveway gate. Door/window sensors can also be bypassed, so you can arm the rest of your system and leave an open second-floor window unarmed.

Courtesy Features

The buttons on your hardwire touchpads light up when you first push a button and stay on for 15 seconds after the last button is pushed. This makes it easy to correctly operate your system, even in a dimly lit entrance area. You can control the brightness of the display and dim the light to darken a touchpad in a bedroom while someone is sleeping. You can also operate your system in the "quiet mode." With this option on, you can arm or disarm your system quietly and not disturb others.

What Happens in an Emergency?

Your security has three fixed panic alarms—police, fire, and auxiliary—that call for help immediately. They are activated by pressing the appropriate button. Even very young children can learn how to quickly send for emergency help. Police and firefighters will know the exact location and nature of the emergency.

When an alarm is triggered, several combinations of very loud exterior and interior sirens sound and a very realistic voice calls out one of several messages, for example, *Fire* or *Intrusion*.

Your security system can also monitor the normal activity in your home and call for help automatically if normal activities are not detected. For example, if someone falls and can't move, the system notices that normal activities, such as placing outgoing calls or opening doors and windows, have not occurred for a certain length of time. Your system sounds a low-volume siren for 5 minutes to let you know there may be a problem. If all is well, you can stop the siren by disarming your system. If nobody disarms the system during the 5 minutes, your system calls for help.

If an attempted robbery should occur while you are in your home, you can use the Alarm Verification Module*, which allows the central monitoring station to listen and talk to you after it receives your alarm.

* - Not employed in UL listed installations.

Note

Refer to "Planning for Emergencies" in appendix C for emergency planning details.

Using Your System When You're Away

Off-site operations allow you to control and monitor most of your system's features even while you are away from your home. If you are on vacation, for example, you can check the temperature, turn lights on and off, check for any trouble conditions, and even bypass the sensor on a door to let in a neighbor, delivery person, or service person.

What if There's a System Problem?

Your system has been designed to keep false alarms and system problems to a minimum. If there is a problem, your security system can diagnose it and then sound trouble beeps to let you know about it. In some instances, your system can alert your central monitoring station of the problem as well.

Your system has a backup battery that will secure your home even during a power failure. An optional feature allows your system to alert the central monitoring station if the power is off for more than 15 minutes. It reports again when power has been restored.

Your system has some precautionary features that allow alarms to be validated or canceled before calling the central station. For example, when an intruder is detected, your system sounds an alarm immediately in an attempt to scare off the intruder. If the alarm verification feature* is on, your system will not initiate a call to the central monitoring station unless a second sensor is tripped within 4 minutes. You can also choose to delay the sounding of exterior sirens for up to 15 seconds, giving you time to correct an arming mistake before your neighbors are alerted.

* - Not available in UL listed installations.

Security System Basics

There are several devices you can use to operate your security system. You can choose one or more full-function touchpads to control your system. You can operate your system using a phone in your home; and, for most features, you can operate your system from any phone away from your home. Finally, you can control most basic operations using a keychain touchpad.

This manual is divided into separate sections for touchpad, phone, and keychain touchpad operation of your system. Each method of operation is slightly different from the others, so use the tabs to locate the appropriate section each time you look up a feature.

Your security system has three basic protection levels (see page number listed):

	Touchpad Page No.	Phone Page No.	Keychain Page No.
• Level 1-Off leaves all protection off.	27	68	93
• Level 2-Stay is for when you stay in. The system detects activity at outside doors and windows but not inside your home or business.	19	65	90
• Level 3-Away is for when you go away. The system detects activity outside as well as inside your home or business.	22	66	90

In addition to the basic protection levels, your security system gives you the following options (see page number listed):

	Touchpad Page No.	Phone Page No.	Keychain Page No.
• Sending emergency alarms (fire, police, or auxiliary).	13	61	89
• Turning lights on or off during arming or independent of arming.	40	74	95

	Touchpad Page No.	Phone Page No.	Keychain Page No.
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• Leaving windows or doors open or opening them after setting protection to on.	24	66	92
• Controlling your furnace or air conditioner using energy-saving settings.	36	72	94
• Canceling the exit delay time which lets you leave after turning protection on.	26	67	91
• Checking for system activity or recent alarms.	28	69	N/A
• Changing access codes which allow you and others to use your system.	33	71	N/A
• Setting your system to touchpad quiet mode, which silences beeps and messages from interior speakers.	42	75	N/A

What You Need to Know About This Manual

This manual describes how to operate your security system. Before attempting a procedure for the first time, read through the entire procedure. Operating errors, including false alarms, are often prevented by carefully following the operating instructions step by step.

Basic Terms

Many terms are located in the full glossary at the end of this manual,

but these are some of the basics to get you started.

- Access Code** A code that allows you and others to access and control your system. If necessary, up to 16 different codes can be programmed for different users.
- Bypassing** Allows you to turn off protection for selected areas of your system only.
- Arming** Turning system protection on. Level 2-Stay turns on protection to the outside areas while allowing you to walk around inside. An alarm sounds if anyone enters. Level 3-Away turns on all sensors, and an alarm sounds if anyone moves around inside or enters from the outside.
- Central Monitoring Station** If you choose to have your home monitored, your system can communicate with this station to report alarms or other problems with your system. During an emergency, the central monitoring station sends police or fire personnel.
- Control Panel** The electronic “brains” of your system.
- Entry Delay** The number of seconds your system will delay sounding an alarm when you enter your armed home or business. This delay provides ample time to enter and disarm your system before setting off an alarm. The programmed entry delay is _____seconds.
- Exit Delay** The number of seconds your system will delay arming to level 2 or 3 when you exit your home. This delay allows you to arm your system and exit without setting off an alarm. The programmed exit delay is _____seconds.
- No Delay** Use to instantly arm your system to level 2 or 3 without an exit delay.
- Panic Buttons** Police, fire, and auxiliary buttons on a touchpad. When activated (press and hold for at least 2 full seconds), they send an immediate alarm to the central monitoring station.

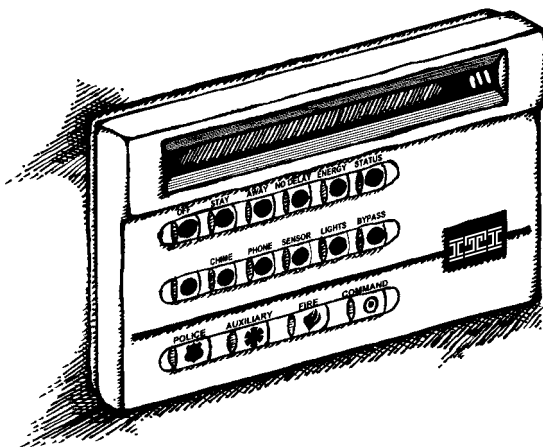
Sensors

These are the devices such as smoke detectors, motion detectors, glass break detectors, and door/window sensors that monitor conditions and report to the control panel.

You're now ready to move on to the basic touchpad operations. The following sections guide you through disarming and arming your system and using all other features from the various touchpads. Subsequent sections guide you through the use of the touch-tone telephone and keychain touchpad.

Touchpad Operations

- Touchpad Overview 12
- Section 2:
Using the Touchpad for Emergencies 13
- Section 3:
Basic Touchpad Operations 19
- Section 4:
Additional Touchpad Features 33



Touchpad Overview

Several different touchpads are available to operate your security system. All touchpads are operated in the same way, although some do not have a message display. Use the voice messages from internal speakers if you have them and/or beeps from the touchpad's speaker, if available, to verify your entries. Touchpads with a display allow you to see and hear messages. All touchpads activate the appropriate alarm to signal trouble and emergency situations.

A **touchpad operation pocket guide** is included in the owner's material provided by your installer. Use this card for quick reference once you are familiar with the operations of your security system.

You can also operate your system using the phone, for example, when you are away or are in a room without a touchpad. Using the phone to operate your security system is slightly different from touchpad operations, so you'll need to turn to the "Phone Operations" section of this manual for phone instructions. (We have also included a **phone operation pocket guide** for quick reference when operating your system from a phone.)

Section 2: Using the Touchpad for Emergencies

Using Panic Alarms: Police, Fire, and Auxiliary



Panic buttons are used to quickly alert the central monitoring station to an emergency in your home. You have three panic button options. When one is pressed, the central monitoring station knows within seconds what your emergency is. This information helps emergency personnel respond appropriately.

If your system is monitored, panic alarms call the central monitoring station, but each alarm sounds and reacts differently when activated.

- The **police panic alarm** is a loud, steady-on tone from interior and exterior sirens to scare off an intruder and alert neighbors to your trouble. The central monitoring station responds by calling the police.
- The **fire panic alarm** is a loud, repeating three long tones sounding from all interior and exterior sirens to alert neighbors and anyone in your home or office to a fire. The central monitoring station responds by calling the fire department.
- The **auxiliary panic alarm** is a fast on-off-on-off tone from interior sirens only to signal a medical or other type of emergency. The central monitoring station responds by calling the service or agency you have designated, such as an ambulance.

The order of alarm priority is as follows: fire, police, auxiliary. A higher priority alarm will cause the lower priority alarm sound to change.

Emergency panic alarms are armed in all security levels if your installer has turned them on.

Sending a Panic Alarm

To send a panic alarm:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Press the appropriate panic button, POLICE, FIRE, or AUXILIARY, for 2 full seconds. 	<p>(<i>POLICE</i>, <i>FIRE</i>, or <i>AUXILIARY</i>) ALARM</p> <p>Sn (81, 80, or 82)</p> <p>(<i>POLICE</i>, <i>FIRE</i>, or <i>AUXILIARY</i>) PANIC</p>	<p>A loud alarm, then <i>HELP HELP...sensor (81 or 82)</i>. or <i>FIRE FIRE...sensor 80</i>.</p>

To cancel a panic alarm:

Do this	Display, if available, will read	You will hear
<ol style="list-style-type: none"> Within 15 seconds of activating a police or auxiliary alarm, enter your access code + 1. (No call is sent to the central monitoring station.) 	<p>1-OFF REPORT CANCELED</p>	<p>One long beep, then <i>Alarm system is off</i>. If canceled, <i>Alarm bypassed</i>.</p>
<ol style="list-style-type: none"> If 15 seconds have already passed or if the alarm was a fire alarm, call the central monitoring station to cancel the alarm. (Entering your access code + 1 after a fire alarm only turns off the sirens. It does not cancel the alarm.) 		

Resetting Smoke Detectors

To reset hardwire smoke detectors after an alarm:

Do this	Display, if available, will read	You will hear
1. Turn sirens off by entering your access code + 1 .	1-OFF	One long beep, then <i>Alarm system is off</i> .
2. If you wish, check which hardwire smoke detectors caused the alarm by locating those with a light on.		
3. To reset hardwire smoke detectors, enter your access code + 1 a second time.	1-OFF	One long beep, then <i>Alarm system is off</i> .
4. Verify that hardwire smoke detectors are reset by checking to see that the lights are off.		

To reset wireless smoke detectors:

Wireless smoke detectors automatically reset themselves after all smoke has cleared.

Help!

WARNING! Call your central monitoring station if a fire alarm was sent accidentally.

Can I stop an accidental panic alarm?

If you cancel police and auxiliary alarms within the 15-second dialing delay, the alarm is not reported to the central monitoring station and police will not be sent. Fire alarm sirens can be silenced, but the call to the central monitoring station cannot be stopped by disarming your system to level 1. You must call the central monitoring station and follow their assigned procedures to prevent a false dispatch.

If I'm not home, how long will the sirens ring?

If your system is not disarmed after an alarm begins, the sirens turn off after 4 minutes. However, any lights connected to your system remain on. The fire department may arrive after the sirens stop.

Do panic alarms work when security protection is turned off?

Yes; 24-hour sensors like the police, fire, and auxiliary panic alarms are always armed, regardless of protection level. Some special 24-hour interior sensors can be turned off by bypassing them; however, fire sensors cannot be bypassed.

Preventing Accidental Alarms



Your security system is engineered with advanced technology that eliminates accidental alarms caused by technical problems. This technology also prevents other wireless devices, such as garage door openers, ham radios, television remote controls, and cellular phones, from interfering with your security system in any way.

One of the most important things to remember about your security system is that most accidental alarms occur during entry and exit delays. For example, if you arm the system and then run upstairs for something you forgot, the exit delay time will expire. As soon as an armed door is opened or the motion detector is tripped, an alarm will sound.

Another point to consider is that pets can sometimes climb higher than you think. Thus, they may pass in front of a motion detector and actu-

ally set off the alarm when you are away.

Below are some ways to prevent accidental alarms. You may need to contact your installer to help you correct certain problems.

To prevent accidental alarms:

1. Always enter and exit within the proper delay time.
2. Make sure all doors leading outside have delay times. If your system is armed to level 2 and doors have been set to arm instantly, an alarm will sound if you open the door to let a pet out.
3. Be aware of the devices your system has and how they operate.
4. Motion detectors operate by detecting a change in temperature when something passes in front of them. Motion detectors that have been turned upside down to avoid pet movement may be tripped by rising heat. If you have pets, you may want to eliminate motion detectors or ask your installer to put “pet lenses” in your motion detectors.
5. Check the location of your smoke detectors. Keep in mind that smoke detectors near bathrooms can be tripped by steam from a shower and smoke detectors near your kitchen can be tripped by smoke from cooking.

Canceling Accidental Alarms



The most common cause of an accidental alarm is unintentionally tripping sensors like those on an armed window or door. You can turn the sirens off by canceling the alarm. In some cases, canceling will silence the sirens and stop the call to the central monitoring station. (If the dialing delay is installed, the alarm must be canceled within 15 seconds to stop the call.) In other instances, as with the fire panic alarm, canceling silences the sirens but does not stop the call to the central monitoring station.

To cancel an alarm:

Do this	Display, if available, will read	You will hear
• Enter your access code + 1 .	<i>1-OFF</i>	One long beep, then Alarm system is off.

Help!

Can I cancel all accidental alarms?

Most, but not all, accidental alarms can be canceled. If you accidentally cause an alarm by opening an armed window, for example, you can stop a call to the central monitoring station by canceling the alarm within the 15-second dialing delay. Police and auxiliary panic alarms can also be stopped within the 15-second dialing delay. A fire panic alarm, however, *cannot* be canceled. Fire alarm sirens may be silenced, but the call cannot be stopped. If an accidental fire alarm has sounded, follow the procedures of your central monitoring station to prevent a false dispatch.

Section 3: Basic Touchpad Operations

Turning Security Protection On



Turning security protection on means you are **arming** your system. Your security system gives you two arming levels of protection to choose from.

- **Level 2-Stay** turns on protection for exterior entrances like doors and windows but doesn't arm interior sensors like motion detectors. You might use Level 2-Stay at night when everyone is sleeping or anytime you want the freedom to move around inside your home with outside doors and windows protected.
- **Level 3-Away** turns on protection for all security sensors, including exterior doors and interior doors and motion detectors. Use Level 3-Away for complete security protection when no one is in your home.

You can also arm your system with a door or window open. While the rest of your home is armed, a second-floor window, for example, can be "bypassed" and left open and unarmed.

When You Stay In— Arming to Level 2-Stay

Note

The exit delay is the period defined by your installer for you to exit after turning security protection on.

To turn security protection on when you stay in:

Do this	Display, if available, will read	You will hear
1. Enter your access code + 2.	<i>2-STAY</i>	Two short beeps, then <i>Alarm system is on level 2.</i>

Do this	Display, if available, will read	You will hear
2. Additional options: <ul style="list-style-type: none"> • To turn off lights, press 0 within 5 seconds. • To cancel the exit delay, press 4 within 5 seconds. 	<i>2-STAY NO DELAY</i>	No delay.
3. If entering or exiting, do so during the delay period or an alarm will sound.		One beep every 4 seconds for most of the delay, then one beep every second for the last 10 seconds of the delay. Two short beeps indicating the end of the exit delay.

The programmed exit delay is _____ seconds.

Note

If an alarm sounds, cancel it by pressing **your access code + 1**. Then see the help box.

Help!

What if I receive the protest message *Sensor nn is open*?

This means the system detects an open window, door, or other sensor. You can close the window or other open sensor, and then repeat the procedure to turn on security protection. If you prefer to leave the window or other sensor open, cancel turning protection on by entering **your access code + 1**, and then use the procedure entitled “Arming with a Window or Door Open” later in this section.

What if the 2 on the display is flashing?

The most likely problem is an open door or window. Press the **STATUS** button for a display message of the problem. If it is something other than an open door or window and you’re not sure how to fix the problem, refer to section 9, “Troubleshooting.”

Notes

If you arm your system, exit, and accidentally leave the door open, then when the exit delay time expires, the police alarm will sound and the central monitoring station will be notified of an **exit fault**. Check with your central monitoring station for its procedures following this alarm.

Twenty-four-hour sensors including fire, police, and auxiliary are always on. To activate, press the proper panic button and hold for 2 full seconds.

If the quiet mode feature is on and you are using a touchpad with a display (alphanumeric), no voice message will sound as you arm, and exit beeps will sound only from the touchpad, not from interior speakers. Quiet mode has no affect on touchpads that do not have a display (wireless).

CAUTION

If open doors or windows caused the protest beeps and they are left open, they will not be protected.

When You Go Away— Arming to Level 3-Away

Note

The exit delay is the time set by your installer for you to exit after turning security protection on.

To turn security protection on when you go away:

Do this	Display, if available, will read	You will hear
1. Enter your access code + 3 .	<i>3-AWAY</i>	<p>Three short beeps, then <i>Alarm system is on level 3</i>.</p> <p>Several slow beeps during the exit delay.</p>
2. Additional options: <ul style="list-style-type: none"> • To turn off lights, press 0 within 5 seconds. • To cancel the exit delay, press 4 within 5 seconds. 	<i>3-AWAY NO DELAY</i>	<i>No delay.</i>
3. Exit before the end of the delay period or an alarm will sound.		<p>One beep every 4 seconds for most of the delay, then one beep every second for the last 10 seconds of the delay.</p> <p>Three short beeps indicating the end of the exit period.</p>

Note

If an alarm sounds, cancel it by pressing **your access code + 1**. Then see the help box.

Help!

What if I receive the protest message *Sensor nn is open*?

This means the system detects an open window, door, or other sensor. You can close the window or other open sensor, and then repeat the procedure to turn on security protection. If you prefer to leave the window or other sensor open, cancel turning protection on by entering **your access code + 1**, and then use the procedure entitled “Arming with a Window or Door Open.”

What if the 3 on the display is flashing?

The most likely problem is an open door or window. Press the **STATUS** button for a display message of the problem. If it is something other than an open door or window and you’re not sure how to fix the problem, refer to section 9, “Troubleshooting.”

Notes

If you arm your system, exit, and accidentally leave the door open, then when the exit delay time expires, the police alarm will sound and the central monitoring station will be notified of an **exit fault**. Check with your central monitoring station for its procedures following this alarm.

Twenty-four-hour sensors including fire, police, and auxiliary are always on. To activate, press the proper panic button and hold for 2 full seconds.

If the quiet mode feature is on and you are using a touchpad with a display (alphanumeric), no voice message will sound as you arm, and exit beeps will sound only from the touchpad, not from interior speakers. Quiet mode has no effect on touchpads that do not have a display (wireless).

CAUTION

If open doors or windows caused the protest beeps and they are left open, they will not be protected.

Arming with a Window or Door Open

Use this procedure to tell your system to ignore (bypass) sensors, perhaps like those on open windows and doors, while security protection is being turned on. Bypassed windows, doors, or other sensors are not protected.

Note

This procedure shall not be used in UL listed installations. (See “Opening a Door or Window When Protection is On.”)

To turn security protection on with a window or door open:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> If you are staying in, enter your access code + 2 + BYPASS. 	<i>nn BYPASSED</i> <i>2-STAY</i>	Alarm system is on level 2. Sensor nn bypassed.
or	<i>nn BYPASSED</i> <i>3-AWAY</i>	Alarm system is on level 3. Alarm system is on. Sensor nn bypassed.
If you are going away, enter your access code + 3 + BYPASS.	The arming level (1, 2, or 3) blinks when a sensor is bypassed.	

CAUTION

If open doors or windows caused the protest beeps and they are left open, they will not be protected.

Opening a Door or Window When Protection is On

Before opening a door or window when security protection is already on:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Enter your access code + BYPASS + two-digit sensor number + COMMAND. 	<i>BYPASS Sn--</i> <i>OK</i>	Sensor nn bypassed.
You can now open selected doors and/or windows without setting off an alarm. (Repeating the entry removes the sensor bypass.)	The arming level (1, 2, or 3) blinks when a sensor is bypassed.	

Help!

What if I get the message *Invalid* or *FAIL*?

You must enter the sensor number within 5 seconds. If you still get this message, the sensor you're trying to bypass may already be bypassed. To check this, press the **STATUS** button, and then listen for the sensor number in the *Sensor nn bypassed* message.

If that isn't the problem, the sensor you're trying to bypass may not be active in the current protection level or the sensor number is in a "group" of sensors that cannot be bypassed (like fire alarm sensors). It may also be possible that the sensor you're trying to bypass is not programmed into your system.

What if I change protection levels while a sensor is bypassed?

If, for example, you go to protection Level 2-Stay from Level 3-Away, previously bypassed sensors will no longer be bypassed.

Note

When sensors are bypassed, the protection level on the display (2 or 3) will flash.

Instant Arming with No Exit/Entry Delay Time



Your security system has built-in exit and entry delay times. The delays give you time to arm the system and get out of your home without setting off an alarm or to get in and disarm before sounding an alarm. Entry and exit delays are set to meet your needs and lifestyle.

There may be times, however, when you don't need an entry or exit delay and want to arm your system instantly. For example, if everyone is home and inside for the night, arm your system to level 2 immediately by choosing no delay. You can also use no delay if, for example, you are arming your system from the outside, using a wireless touchpad, and you are the last one to leave. When no delay is chosen, sensors arm immediately, allowing no time to enter or exit.

To turn on security protection with no entry/exit delay time:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none">If you are staying in, enter your access code + 2 + 4. or If you are going away, enter your access code + 3 + 4.	<i>2-STAY NO DELAY</i>	Two short beeps, then <i>Alarm system is on level 2, no delay.</i>
	<i>3-AWAY NO DELAY</i>	Three short beeps, then Alarm system is on level 3, no delay.

Note

Changing the protection level will set the sensors back to their normal delay times unless 4 is again pressed after entering your access code + new protection level.

Turning Security Protection Off



Turning security protection off means you are **disarming** your system. When you disarm to Level 1-Off, you turn off all protection to doors, windows, and motion detectors. However, your security system is not completely off in level 1. Some features, like smoke detectors and police, fire, and auxiliary panic buttons, are still on. You might use Level 1-Off when you enter or when you want to go in and out of your home freely and do not wish to have any intrusion sensors on. Level 1-Off is also used to cancel most alarms (see “Canceling Accidental Alarms” in section 2).

To turn security protection off:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Enter your access code + 1. 	1-OFF	One long beep, then Alarm system is off.

WARNING!

If you enter your home and controlled lights that are normally off are on and/or you hear alarm sirens, an intruder may be inside or another emergency may have occurred. The same may be true if you enter a door with an entry delay and instead of the normal entry delay beeps (two beeps every 2 seconds) you hear faster beeping (three beeps every 2 seconds). The alarm sirens may have “timed-out” and these faster beeps indicate that an alarm occurred. Leave immediately, and call for emergency help from a neighbor’s phone.

Help!

What if the *I* on the display is flashing?

The most likely problem is an open door or window. Press the **STATUS** button for a display and/or voice message of the problem. If it is something other than an open door or window and you're not sure how to fix the problem, refer to section 9, "Troubleshooting."

What if pulsing beeps sound after I turn protection off?

This indicates an alarm occurred while the system protection was on. To cancel the beeps, repeat the procedure to turn protection off. Press **COMMAND + STATUS** to find out what alarm occurred.

CAUTION

If an alarm occurred while you were away, an intruder may still be in your home. You should have emergency personnel check out the situation before you enter.

Notes

Twenty-four-hour sensors like smoke detectors and police, fire, and auxiliary panic alarms are always armed. To activate, press the proper panic button and hold for 2 full seconds.

Checking Your System Status



The **status** feature allows you to quickly check the operations of your system anytime. It's a good idea to check your system status whenever you see a blinking arming level number on a touchpad display. A blinking number indicates situations like an open door or a low backup battery. Checking the status will tell you what is going on with your system.

A **short status check** tells you what arming level you're in and indicates open windows or doors and system problems, if any, like a low battery or power failure. For a more detailed system report, you can do a **full status check** to check arming level, to check for open windows and doors, to hear the temperature, and to check for any system troubles, such as a low backup battery, power failure, or other problem.

Both the short and full status checks will tell you about the most recent alarm condition. For example, if an alarm goes off while you are away,

you can find out which sensor caused the alarm.

When an alarm condition is stored in the alarm memory, it will be announced the first time you do a short or full status check. Doing a short or full status check a second time will show the system status including any trouble conditions.

To check the current arming level (short status check):

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Press the STATUS button. 	<p>The system displays:</p> <ul style="list-style-type: none"> <i>SYSTEM OK</i> or system troubles if any or any recent alarms 	<p>One, two, or three short beeps, indicating the current arming level.</p> <p>Messages as described in the display column.</p>

Note

See section 9 for an explanation of status check messages.

To review recent activity in your home (full status check):

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none">Press the STATUS button twice. (After pressing STATUS once, be sure to press it again within 5 seconds.)	<p>The system displays:</p> <ul style="list-style-type: none"><i>SYSTEM OK</i> orsystem troubles if any, battery status and power status, and whether or not the energy saver is on and the current temperature (if energy saver is installed) orany recent alarms	<p>One, two, or three short beeps, indicating the current arming level.</p> <p>Messages as described in the display column.</p>

Note

See section 9 for an explanation of status check messages.

To check for the most recent alarms (alarm memory):

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Enter your access code + STATUS + 5. 	<p>The system displays:</p> <ul style="list-style-type: none"> any recent alarms <p>or</p> <ul style="list-style-type: none"> <i>ALARM MEMORY OK</i> 	<p>One, two, or three short beeps, indicating the current arming level. Then, messages about alarms.</p> <p>or</p> <p><i>Alarm memory is OK.</i></p>

Note

See section 9 for an explanation of status check messages.

Section 4: Additional Touchpad Features

Setting and Changing Access Codes



An access code must be entered to begin most operations with your security system. Your **primary access code** is the main code for your system and lets you control all functions, including changing all access codes. Therefore, your primary access code should be given to only a few trusted users. You can give temporary users, such as house guests, one of four secondary codes that controls most system operations and then delete it when they leave. Nineteen additional codes limited to arming and disarming, can be used by service people such as baby-sitters and then deleted when no longer needed.

It is important to remember your primary access code because it is the key to your system. Keep access codes confidential and delete extra codes as soon as they are no longer needed.

When setting or changing access codes:

- A “6” should not be used in any part of an access code. The “6” is reserved for bypassing sensors.
- The first digit of an access code should not be a “4” or “0” since this may interfere with system disarming.
- It is recommended that obvious codes such as 1234 or 1111 not be used.

To set or change an access code:

Do this	Display, if available, will read	You will hear
1. Set the system to level 1 (disarm) by entering your access code + 1 .	<i>1-OFF</i>	One long beep, then Alarm system is off.
2. Enter change settings mode by entering your primary access code + STATUS + 8 .	<i>SYSTEM SETTINGS</i>	System memory open.

Do this	Display, if available, will read	You will hear
3. Enter 00 for a primary access code, 01 to 04 for secondary access codes, or any number from 05 to 23 for arm/disarm only codes. Press COMMAND (or wait 5 seconds and this happens automatically).	## - ARM CODE XXXX	
4. Press COMMAND .	-----	
5. Within 60 seconds, enter the new four-digit code you want to use + COMMAND . (Once you begin entering the new code, you have 5 seconds to enter each number.)	OK ## - ARM CODE XXXX	
If the system displays/announces <i>fail</i> , refer to the help box that follows. Repeat steps 4 and 5.		
6. Repeat steps 3 through 5 to set or change additional access codes.	## - ARM CODE XXXX	
7. Exit change settings mode by entering 99 + COMMAND .	99-EXIT	
8. Press COMMAND again.	1-OFF	Goodbye.

Notes

represents the numbers 00–23 and XXXX represents an existing code. The first time you enter a code the display reads **** (blank code) instead of numbers (XXXX) of an existing code. If you do not complete a step within 60 seconds your system announces *Goodbye* and exits change settings mode. If this happens, repeat steps 2–5.

If you are using a touchpad without a display (wireless) you will get voice prompts instead of display prompts.

To delete an access code:

Do this

1. Follow steps 1 through 4 on the previous page.
2. At step 5, enter your primary access code as the four-digit code you want to delete. *## - ARM
CODE *****
3. Follow the rest of the steps to delete additional codes or to exit change settings mode.

Note

You cannot delete your primary access code.

Help!

What if the system displays *FAIL*?

First, check to see that you have entered a four-digit code. Next, make sure your new code is not the same as an existing access code. Then, make sure the last two digits of the new code are not the same. And, if you already have a code such as 1234, you cannot enter 1243 (reverse the last two digits) as an additional code. You may want to try a different code.

What if I enter more than four digits?

The last four digits entered become the new access code.

Can I use all access codes for all operations?

No. Your primary access code can be used to operate all features of your security system. A secondary access code can be substituted for the primary code in most functions, except when

1. bypassing a sensor to open a window or door when the system is armed (see the section entitled “Opening a Door or Window When Protection Is On”);
2. entering the change settings mode.

Arm/disarm codes can be used only for arming and disarming functions. If a sensor is open when arming with these codes, the sensor can be bypassed.

Using the Energy Saver Feature



The **energy saver** feature can override your normal heating and air conditioning temperature settings if you have this option installed. This allows you to use more energy-efficient settings when you are away from home. For example, if your heating system at home is usually set at 68°F, you can turn the energy saver *on* and set the temperature to 55°F while you are away. You can call your system from work to check the temperature and turn the energy saver *off* to give temperature control back to your furnace thermostat. Your house then heats to your furnace temperature setting, in this case 68°F. You control your air conditioning temperatures the same way.

In addition to controlling temperature, the energy saver feature notifies the central monitoring station if your heating or air conditioning unit fails, before pipes freeze or pets are harmed by extreme heat or cold.

Turning Energy Saver On and Off

To override your normal heating or air conditioning settings, turn on the energy saver feature. When you are ready to return to your normal temperature control settings, turn the feature off. You use the same steps for turning the feature on and off.

To turn the energy saver feature on or off:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Enter your access code + 5. 	<p><i>ENERGY SAVED ON</i></p> <p>or</p> <p><i>ENERGY SAVED OFF</i></p>	<p>Energy saver is on, then one short beep.</p> <p>or</p> <p>Energy saver is off, then one short beep.</p>

Setting Energy Saver Temperatures

Initially, you must set the energy saver to the desired high and low temperatures. You don't need to reset them again, unless you want to change temperature settings.

To set high and low energy saver temperatures:

Do this	Display, if available, will read	You will hear
1. If not done already, set the system to level 1 (disarm) by entering your access code + 1 .	<i>1-OFF</i>	One long beep, then Alarm system is off.
2. Get into change settings mode by entering your access code + STATUS + 8 .	<i>SYSTEM SETTINGS</i>	System memory open.
3. Enter 53 + COMMAND .	<i>53 - ES LOW nn</i> (nn = current setting)	
4. Press COMMAND .	--	
5. Within 60 seconds, enter the desired low temperature (45°F or higher) + COMMAND . (Once you begin entering the new code, you have 5 seconds to enter each number.)	<i>OK 53 - ES LOW nn</i> (nn = new setting)	
If the system displays/announces <i>fail</i> , repeat steps 4 and 5.		
6. Enter 54 + COMMAND .	<i>54 - ES HIGH nn</i> (nn = current setting)	
7. Press COMMAND .	--	

Do this	Display, if available, will read	You will hear
<p>8. Within 60 seconds, enter the desired high temperature (90°F or lower) + COMMAND. (Once you begin entering the new code, you have 5 seconds to enter each number.)</p> <p>If the system displays/ announces <i>fail</i>, repeat steps 7 and 8.</p>	<p><i>OK</i></p> <p><i>54 -ES HIGH nn</i> (nn = new setting)</p>	

Note

If you do not complete a step within 60 seconds your system announces *Goodbye* and exits change settings mode. If this happens, repeat steps 2–8.

Do this	Display, if available, will read	You will hear
<p>9. Exit change settings mode by entering 99 + COMMAND.</p>	<i>99-EXIT</i>	
<p>10. Press COMMAND again to return the panel to level 1 (disarm).</p>	<i>1-OFF</i>	Goodbye.

Help!

What if the system displays *FAIL* and I hear *Invalid*?

You may have entered a new temperature setting that is out of range. Retry the entry using valid set point numbers. The low temperature range is 45°F to 1 degree below the high temperature setting. The high temperature range is 1 degree above the low temperature setting to 90°F.

Example:

If low temperature is set at 50°F, then the high temperature range is 51°F to 90°F.

If high temperature is set at 88°F, then the low temperature range is 45°F to 87°F.

What if I enter more than two digits?

The last two digits entered become the new temperature setting.

Note

You must enter each digit of the new temperature setting within 5 seconds or the entry will fail. After 1 minute without an entry the system will exit the change settings mode.

Controlling Lights and Appliances



Your security system can be used to control various lights and appliances in your home when they are plugged into special wireless lamp or appliance modules. These modules connect your lights or appliances to your security system, allowing you to turn them on and off using touchpads or your telephone. You have the option of turning *all* lamps plugged into lamp modules on or off at the same time, turning all appliances off, or controlling individual lights and appliances. (Appliance modules turn off when the *all off* command is entered but will not respond to the *all on* command).

The lights connected to your security system play an important role in emergency situations. For example, all lights connected to your security system automatically turn on during alarms. Some lights turn on when you enter or exit and remain on for 5 minutes, giving you ample light and time to see your way.

To turn all lights on or off:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Enter your access code + 0. 	<p><i>LIGHTS ON</i>, displayed for 1 second.</p> <p>or</p> <p><i>LIGHTS OFF</i>, displayed for 1 second.</p>	<p>On (if lights are off), then one short beep.</p> <p>Off (if lights are on), then one short beep.</p>

Individual Light and Appliance Control**To turn individual lights and devices on and off:**

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> Press BYPASS, then within 3 seconds, press the light or appliance number you wish to turn on or off. (Your installer has these numbers.) 	<p><i>LIGHT nn ON</i></p> <p>or</p> <p>If lights are already on, <i>LIGHT nn OFF</i></p>	<p>nn on, then one short beep.</p> <p>nn off, then one short beep.</p>

Help!

How do lights connected to my security system react during an alarm?

Alarm sirens automatically stop ringing after 4 minutes, however, lights caused by an alarm will stay on until the system is reset by disarming.

- During both fire and auxiliary alarms, lights turn on and remain on with *no flashing* until 5 minutes after the system is disarmed or armed to a new security level.
- During a police alarm, lights *flash* on and off until the siren is canceled or after 4 minutes. After 4 minutes, lights remain on steadily until 5 minutes after your system is disarmed.
- During an intrusion alarm, lights *flash* on and off until the siren is canceled or after 4 minutes. After 4 minutes, lights remain on steadily until 5 minutes after your system is disarmed.
- During entry and exit delay times, selected lights turn on and remain on for 5 minutes.

Notes

Lamp operation in an alarm condition is supplementary to the alarm siren.

Lamps plugged into lamp modules set to unit setting 1 turn on during entry or exit delays. Lamps plugged into lamp modules set to unit setting 2 flash one, two, or three times when the arming level is changed to level 1, 2, or 3. Appliance modules will turn off when all lights are turned off. Appliance modules should never be set to unit number 1 or 2.

Using the Quiet Mode Feature



Your security system sounds beeps and voice messages in response to your commands. There may be times, however, when you do not want these sounds emitted through your interior speakers. For example, if you arm your system while everyone is sleeping, you can use the **quiet mode** feature to silence any beeps or messages from the interior speakers.

If you are using a touchpad with display (alphanumeric) with the quiet mode on, the usual voice messages for most commands are silenced. Many beeps will only sound from the touchpad, not from internal speakers. (Exit beeps and arming level beeps when you turn security

protection on or off *are* heard from internal speakers.) Quiet mode has no affect on touchpads that do not have a display (wireless). See the “Phone Operations” section for using quiet mode from a phone.

When the quiet mode feature is off, *all* audio responses to commands will be announced through the internal speakers.

Note

The touchpad quiet mode must be left off in UL listed installations.

To turn the touchpad quiet feature on or off:

Do this	Display, if available, will read	You will hear
1. Turn security protection off by entering your access code + 1 .	<i>I-OFF</i>	Alarm system is off.
2. Enter your access code again and press STATUS + 8 .	<i>SYSTEM SETTINGS</i>	System memory open.
3. Enter 77 + COMMAND .	<i>77-QUIET ON</i> or <i>77-QUIET OFF</i>	
4. Press COMMAND to switch touchpad quiet to the opposite setting (on or off).	<i>OK</i>	

Note

If you do not complete the preceding entry within 3 seconds your system exits change settings mode. If this happens, repeat steps 2–5.

Do this	Display, if available, will read	You will hear
5. Exit the change settings mode by entering 99 + COMMAND .	<i>99-EXIT</i>	
6. Press COMMAND again.	<i>1-OFF</i>	<i>Goodbye.</i>

Using the Chime Feature



When you have security protection turned off (disarmed to Level 1-Off), you can turn on the **chime** feature to let you know if anyone enters or leaves, even though your doors and windows are not armed. When on, the chime feature causes the system to sound chime beeps whenever a monitored perimeter door or window is opened. This works well for keeping an eye on children going in and out of your house.

To turn the chime feature on and off:

Do this	Display, if available, will read	You will hear
1. Turn security protection off by entering your access code + 1 .	<i>1-OFF</i>	Alarm system is off.
2. Enter your access code again and press 7 .	<i>1-OFF</i> <i>CHIME ON</i>	On, then one short beep.
	or <i>1-OFF</i>	or Off, then one short beep.

Adjusting the Touchpad Display Brightness

If you have a touchpad with a display (alphanumeric), you can adjust the display brightness. For example, if you have a touchpad in a bedroom, you may want to dim the display at night so it won't disturb your sleep.

Your touchpad has four brightness levels from 1 (dim) to 4 (bright). Touchpad buttons 1 through 4 are used to adjust the display brightness.

After dimming the display, pressing any button momentarily returns the display to full brightness. After 15 seconds of no touchpad activity, the display returns to the set dimmed level. If an alarm occurs while the display is dimmed, it automatically returns to the full brightness level and stays that way until you disarm your system.

To change the touchpad display brightness:

Do this

- Press and hold the 1, 2, 3, or 4 touchpad button to set the desired brightness level.

The No Activity Feature



Your security system monitors normal activities in your home or business. When your system is in level 1 or level 2, it expects that under normal circumstances you will open and close doors, place telephone calls, change arming levels, and turn lights on and off. If none of these activities occurs within a set time frame, your system will sound the auxiliary alarm from your internal sirens. If all is well, just stop the alarm by disarming to level 1 within 5 minutes. If someone inside is in trouble—perhaps a family member has fallen or someone is tied up in a robbery—and can't cancel the alarm, a call will be sent to the central monitoring station and it will send emergency personnel to check out the situation.

What happens when the no activity feature activates:

Do this	Display, if available, will read	You will hear
1. If no activity is recorded for the set time frame:	<i>AUXILIARY ALARM Sn79- NO ACTIVITY</i>	Help, help sensor 7 9.
2. If alarm is not canceled within 5 minutes, the central monitoring station is called and emergency personnel are sent. Sirens will stop once the message has reached the central monitoring station.		Auxiliary alarms will sound only from interior sirens.
3. Cancel alarm within 5 minutes if there is no emergency by entering your access code + 1 .		One long beep, then <i>Alarm system is off, alarm bypassed.</i>

Note

The no activity feature is only available if your installer has turned it on.

The Touchpad Tamper Feature

The **touchpad tamper** feature monitors the number of keys pressed on a touchpad or phone in your home or business. If approximately 40 or more keys are pressed without hitting a valid code, a police siren will sound. For example, if an intruder tries to figure out your access code, your security system sounds an alarm when too many wrong keys are pressed.

What happens when the touchpad tamper feature is activated:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none"> If approximately 40 or more keys are pressed without hitting a valid code: 	<p><i>POLICE</i> <i>ALARM Sn77-</i> <i>TOUCHPAD</i> <i>TAMPER</i></p>	Help, help, sensor 7 7.

Note

An incorrect key press is defined as any number key that is not part of a valid access code.

Opening and Closing Reports Feature

If you want to monitor the use of your security system, the **opening** and **closing reports** feature, set up by your installer, sends details of the arming and disarming activities of your system to the central monitoring station. These reports track which users arm and disarm the system and at what time.

If the opening and closing reports feature is installed:

After you arm or disarm your security system, your phone line will be briefly tied up when your system reports to the central monitoring station.

System Tests

Automatic Test Features

Your security system is able to automatically test itself and alert you if it discovers any system problems. The system performs ongoing tests to check for problems like power failures, low batteries, sensors that aren't working, and communication trouble with the central monitoring station. When your system detects a problem, trouble beeps sound to alert you. In many cases, your system will notify the central monitoring station of system problems.

You can find and fix most system troubles yourself (see section 9, “Troubleshooting”); however, some system troubles may require you to call your security system dealer for assistance.

Possible Trouble Signals

When your security system detects a problem, interior sirens sound trouble beeps rapidly six times, and then again in 60 seconds, continuing this pattern until the trouble condition is fixed. If your system is in level 2 or 3 and a problem occurs, most trouble beeps won’t start until you disarm your system to level 1. If you do a status check (see “Checking Your System Status”) *or* change the arming level, beeps and voice messages will stop. If the problem is not corrected, beeps and voice messages start again 10 hours later.

Trouble Messages

AC Power Failure

Your system may have been accidentally unplugged from AC power or there may be an AC power outage. The backup battery will take over. If AC power is not restored within 15 minutes, the system will alert you (and the central monitoring station if your installer enabled this feature).

AC Power Failure	Display, if available, will read	You will hear
1. As soon as the power goes out or your system is accidentally unplugged:	Arming level (1, 2, or 3) will blink.	
2. If you press the STATUS button to find out why arming level is blinking:	AC POWER FAIL	One long beep, then <i>Alarm system is off, AC power failure.</i>

AC Power Failure	Display, if available, will read	You will hear
<p>3. If the power isn't restored within 15 minutes:</p> <ul style="list-style-type: none"> • <i>90-TROUBLE AC POWER</i> is reported to the central monitoring station if your installer has turned this feature on. • If you have the energy saver feature on, it will shut down to conserve battery power and control will be returned to your furnace thermostat. • If AC power failure lasts long enough to drain the backup battery to the "low battery" level, the system will tell you that you have a low battery problem. 	Touchpad display goes blank. The display comes on when a key is pressed.	Six trouble beeps in a row, every 60 seconds.

System Battery Failure

This means that the emergency backup battery has been drained and must be recharged or replaced. If your AC power is not working, your security system may shut down once the battery is drained. When AC power is restored, your security system will recharge its battery.

System Battery Failure	Display, if available, will read	You will hear
<ul style="list-style-type: none"> • <i>91 TROUBLE CPU LOW BATTERY</i> is reported to the central monitoring station. 	CPU LOW BATTERY	Six trouble beeps.

Sensor Failure

The sensor indicated is not communicating with the system.

Sensor Failure	Display, if available, will read	You will hear
<ol style="list-style-type: none"> 1. If your system is set up to sound immediate trouble beeps, or if the sensor with the problem is a hardwire sensor, trouble beeps start immediately. 	Arming level (1, 2, or 3) blinks	Six trouble beeps, then <i>Sensor nn failure</i> (if sensor is wireless), or <i>Sensor nn trouble</i> (if sensor is a hardwire).
<ol style="list-style-type: none"> 2. If you press the STATUS button to find out why arming level is blinking: 	NN SUPERVISORY (if sensor is wireless), or NN TROUBLE (if sensor is a hardwire)	
<ol style="list-style-type: none"> 3. If your system is <i>not</i> set up to sound immediate beeps, and the troubled sensors are wireless, beeps begin after 10 hours if the problem is not corrected. 		

Sensor Trouble

The sensor indicated has an internal problem. The battery may be low or the sensor cover may be off. The sensor may still be working.

Sensor Trouble	Display, if available, will read	You will hear
1. If the problem is a low battery: or	NN TROUBLE	Sensor nn low battery.
2. If the sensor cover is open:	NN Open	Sensor nn trouble.
3. If the problem is not corrected within seven days trouble beeps begin.		

Fire Sensor Trouble

A fire or smoke sensor has not been properly reset after activation or on some sensors, the sensing chamber is dirty or covered.

Fire Sensor Trouble	Display, if available, will read	You will hear
1. If sirens are still on, turn them off by entering your access code + 1 .	NN OPEN 1-OFF	One long beep, then <i>Alarm system is off.</i>
2. If you wish, check which hardwire smoke detectors are open by locating those with a light on.		
3. To reset hardwire smoke detectors, enter your access code + 1 again.		One long beep, then <i>Alarm system is off.</i>

4. **Wireless** smoke detectors automatically reset themselves when all smoke clears.
5. If the sensor chamber is dirty or covered. NN TROUBLE Six short beeps then *Sensor NN Trouble.*

Fail-to-Communicate

Your security system cannot communicate an alarm to the central monitoring station. Your system will try to report to the central monitoring station three times before it tells you there is a fail-to-communicate problem. It will then try five more times.

Fail-to-Communicate	Display, if available, will read	You will hear
	96 ALARM PHONE FAIL- URE	Phone failure trouble.

If you discovered the fail-to-communicate while attempting to send an auxiliary or silent alarm, the system will change to a police siren. Once the siren shuts off, trouble beeps begin.

Manual Tests

The tests your security system automatically performs provide continuing reassurance that it is working properly. There are also system tests you can do yourself on a regular basis as an added safeguard. Taking time to do regular manual tests will familiarize you with your system and alert you to anything unusual, such as cut phone lines or sensors that have been tampered with.

It is recommended that you test your system on a weekly basis.

Testing Sensors

The sensor test checks all sensors, including panic buttons and motion detectors. Part of the sensor test requires you to walk through your home and open, or trip, each sensor. (See following table.)

To perform the sensor test:

Do this	Display, if available, will read	You will hear
1. Set the system to level 1 (disarm) by entering your access code + 1 .	<i>1-OFF</i>	One beep, then Alarm system is off.
2. Then, enter your access code + 9 .	<i>9-SENSOR TEST</i>	One beep, then Sensor test is on.

Note

The 9 on the display will flash during the test. During sensor testing, tripping a sensor will not cause an alarm.

The 15-minute test is started and the alarm memory is cleared. Every 60 seconds the system will sound a short beep and announce sensor test is on.

Now, walk through your home or business, tripping sensors as indicated in the following table.

Sensor Test Tripping Instructions

Sensor	Do this
Door/window sensor	Open the secured door or window.
Freeze sensor	Apply ice to the sensor. Do not allow the sensor to get wet.
Glass guard sensor	Tap the glass 3 or 4 inches from the sensor.
Motion detector	Avoid the motion detector's view for 5 minutes, then enter its view.
Rate-of-rise heat detector	Rub your hands together until warm, then place one hand on the detector for 30 seconds.

Sensor	Do this
Shock sensor	Tap the glass twice, away from the sensor. Wait at least 30 seconds before testing again.
Smoke detector	Press and hold the test button until the system sounds transmission or two short beeps.
Emergency panic button	Press and hold the appropriate panic button(s) for 3 full seconds.

Do this	Display, if available, will read	You will hear
<p>1. As you trip each sensor following the tripping instructions: (If the control panel does not receive the signal from a sensor you won't hear anything. This is how you tell if a sensor is bad.)</p>	<i>NN OK</i> (If sensor is working properly.)	One beep as each sensor is tripped, then Sensor nn OK is announced after the sensor is tripped if sensor is working properly.
<p>2. Press the STATUS button when you think all sensors have been tested.</p>	NN TEST	The system announces untested sensor numbers.
<p>3. After 15 minutes the system will exit test to level 1. Press your access code + 9 while the system is still in sensor test if you need more time to trip sensors. The system will stay in sensor test for an additional 15 minutes.</p>		

Do this	Display, if available, will read	You will hear
4. After all sensors have been tested, press the STATUS button.	ALL SENSOR OK	Sensor test is on, then All sensor test OK.
5. To exit sensor test enter your access code + 1 .	1-OFF	Alarm system is off.

Testing Communication with the Central Monitoring Station

One of the most important benefits of your security system is the ability to react to emergency situations and call for help immediately. To do this, your system talks to a central monitoring station through your telephone line. Test the communication ability regularly to make sure you have the proper telephone link between your system and the central monitoring station. Some central monitoring stations require you to call them before starting this test. Remember to check with them first.

Note

If your system is not connected to a central monitoring station, you won't need to do this test.

Performing a Phone Communication Test

Do this	Display, if available, will read	You will hear
1. Set the system to level 1 (disarm) by entering your access code + 1 .	<i>1-OFF</i>	One beep, then Alarm system is off.
2. Then, enter your access code + 8 .	<p data-bbox="522 391 646 449"><i>8-PHONE TEST</i></p> <ul data-bbox="522 480 706 760" style="list-style-type: none"> <li data-bbox="522 480 685 571">• The number 8 flashes <li data-bbox="522 574 706 760">• The system returns to level 1 when the phone test is complete 	<p data-bbox="740 399 880 490">One beep, then Phone test is on.</p> <p data-bbox="740 542 898 695">Phone test is OK, alarm system is off. (If the test didn't fail.)</p>

Note

The arming level can be changed to level 1 then to level 2 or 3 if you wish, anytime after the test has started. (If you change arming level, you will not hear *Phone test is OK, alarm system is off* at the end of the test.) The phone test will continue whether or not the display reads *PHONE TEST*. Most phone tests take less than 15 minutes. However, your system will try for up to 15 minutes to establish communication with the central monitoring station. Some central monitoring stations may require that you call them before performing a phone test. Check with yours before you start this test.

If service is required, contact:

Phone Operations

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Phone Overview

You can operate your security system from any touch-tone phone in your home, and you can control most features using a phone at a remote location such as in your office or car or at a pay phone. Use the procedures in this section only when operating the system from a phone. Phone operations are only slightly different from touchpad operation, so you'll need to turn to the "Touchpad Operations" section of this manual for complete feature summaries, "Help!" box information, and detailed touchpad instructions. (See the "Keychain Touchpad Operations" section for keychain touchpad instructions.)

A **phone operation pocket guide** is included in the owner's material provided by your installer. Use this card for quick reference once you are familiar with the operations of your security system. (We have also included a **touchpad operation pocket guide** for quick reference when operating your system from a touchpad.)

Use the basic principles below and on the following page when controlling your security system by phone.

Note

Local and remote phone control are optional features. See your installer for details.

Using a Phone in Your Home

Lift the receiver and simply enter the information given in the instructions. Begin all phone operations with the # key. This tells your system that you are not dialing a phone number. Please also note that the first command used must include your **primary access code**. Listen for the messages described in the procedures after each entry.

Calling Your System from a Remote Phone

With Answering Machine or Voice Mail

Ring/Pause/Ring Answer—If you have an answering machine or voice message system, you need to dial your home or business number and let the phone ring twice. Hang up and wait for 10 to 40 seconds, and then call a second time. Your security system will answer by the second ring. Once you're connected to your system, begin all com-

mands by pressing the # key. Use your **primary access code** to control your system from a remote phone.

No Answering Machine or Voice Mail

Toll Saver—If you do not have an answering machine or voice message system and you have this feature on, when you call your security system while you're away, it picks up on the eighth ring if there has been an alarm or other trouble has occurred. If your system hasn't picked up on the eighth ring, you can hang up after the ninth ring, knowing there have been no alarms, without completing the call and incurring long distance charges.

12-Ring Method—If you do not have an answering machine or voice message system and the toll saver feature is off, your security system picks up on the twelfth ring. Your system picks up on the eighth ring if there has been an alarm or other trouble has occurred. Once you're connected to your security system, begin all commands by pressing the # key and entering your primary access code.

Check with your installer to find out if your toll saver feature is on or off.

Receiving a Call While Operating Your System

If you receive a phone call while using a phone to operate your security system, you will hear two long beeps for each ring from interior speakers and phones. If you wish to answer the call, simply hang up to disconnect the phone from your security system, and then answer the call as you normally would.

If you wish to access your security system after finishing the call, you need to start over from the beginning of the phone operation.

Section 5: Using the Phone for Emergencies

Using Panic Alarms: Police, Fire, and Auxiliary



Panic alarms are used to quickly alert the central monitoring station to an emergency in your home. You have three panic alarm options. When one is activated, the central monitoring station knows within seconds what your emergency is. This information helps emergency personnel respond appropriately.

Sending a Panic Alarm

Note

This can only be done from a phone located at your home or business. Panic alarms cannot be activated from a remote phone.

To send a panic alarm:

Do this	You will hear
<ul style="list-style-type: none">Police panic alarm—press # and then press 8 at least five times or press # at least six times.	<i>Help Help ... sensor nn.</i>
Fire panic alarm —press # and then press 7 at least five times.	<i>Fire Fire ... sensor nn.</i>
Auxiliary panic alarm —press # and then press 9 at least five times.	<i>Help Help ... sensor nn.</i>

Note

When sending a panic alarm, do not wait more than 1 second between key presses.

Canceling a Panic Alarm

To cancel a panic alarm:

Do this	You will hear
1. Within 15 seconds of activating the police or auxiliary alarm, enter # + your access code + 1 .	<i>Alarm system is off.</i> If canceled in time, <i>Alarm bypassed.</i>
2. If 15 seconds have already passed or if the alarm was a fire alarm , call the central monitoring station to cancel the alarm. (Entering your access code + 1 after a fire alarm only turns off the sirens. It does not cancel the alarm.)	

Resetting Smoke Detectors

To reset hardwire smoke detectors after an alarm:

Do this	You will hear
1. Turn sirens off by entering # + your access code + 1 .	<i>Alarm system is off.</i>
2. If you wish, check which hardwire smoke detectors are open by locating those with a light on.	
3. To reset hardwire smoke detectors, enter # + your access code + 1 again.	<i>Alarm system is off.</i>
4. Verify that hardwire smoke detectors are reset by checking to see that the lights are off.	

To reset wireless smoke detectors:

Wireless smoke detectors automatically reset themselves after all smoke has cleared.

Preventing Accidental Alarms



One of the most important things to remember about your security system is that most accidental alarms occur during entry and exit delays. For example, if you arm the system and then run upstairs for something you forgot, the exit delay time will expire. As soon as an armed door is opened or the motion detector is tripped, an alarm will sound.

Canceling Accidental Alarms



The most common cause of an accidental alarm is unintentionally tripping sensors like those on an armed window or door.

To cancel an alarm:

Do this	Display, if available, will read	You will hear
<ul style="list-style-type: none">Enter # + your access code + 1.	<i>1-OFF</i>	Alarm system is off.

Section 6: Basic Phone Operations

Turning Security Protection On



Turning security protection on means you are **arming** your system.

When You Stay In—Arming to Level 2-Stay

Note

The exit delay is the period defined by your installer for you to exit after turning security protection on.

To turn security protection on when you stay in:

Do this	You will hear
1. Enter # + your access code + 2 .	<i>Alarm system is on level 2.</i>
2. Additional options: <ul style="list-style-type: none">To turn off lights, press 0 within 5 seconds.To cancel the exit delay, press 4 within 5 seconds.	<i>No delay.</i>
3. If entering or exiting, do so during the delay period or an alarm will sound.	One beep every 4 seconds for most of the delay, then one beep every second for the last 10 seconds of the delay. Two short beeps indicating the end of the exit delay.

Note

If an alarm sounds, cancel it by entering **# + your access code + 1**.

When You Go Away— Arming to Level 3-Away

Note

The exit delay is the period defined by your installer for you to exit after turning security protection on.

To turn security protection on when you go away:

Do this	You will hear
1. Enter # + your access code + 3 .	<i>Alarm system is on level 3.</i>
2. Additional options: <ul style="list-style-type: none">• To turn off lights, press 0 within 5 seconds.• To cancel the exit delay, press 4 within 5 seconds.	<i>No delay.</i>
3. If anyone is exiting, do so during the exit period.	

Note

If an alarm sounds, cancel it by entering # + **your access code** + **1**.

Arming with a Window or Door Open

Use this procedure to tell your system to ignore (or bypass) certain sensors.

Note

This procedure shall not be used in UL listed installations. (See “Opening a Door or Window When Protection is On.”)

To turn security protection on with a window or door open:

Do this	You will hear
<ul style="list-style-type: none"> If you are staying in, enter # + your access code + 2 + 6. <p>or</p> <ul style="list-style-type: none"> If you are going away, enter # + your access code + 3 + 6. 	<p>Alarm system is on level 2. Sensor nn bypassed.</p> <p>Alarm system is on level 3. Sensor nn bypassed.</p>

Note

If an alarm sounds, cancel by entering # + **your access code + 1.**

CAUTION

If open doors or windows caused the protest beeps and they are left open, they will not be protected.

Opening a Door or Window When Protection Is On

Before opening a door or window when security protection is already on:

Do this	You will hear
<p>Press # + your access code + 6 + the two-digit sensor number.</p> <p>You can now open selected doors and/or windows without setting off an alarm. (Repeating the entry removes the sensor bypass.)</p>	<p>After 5 seconds, Sensor nn bypassed.</p>

Instant Arming with No Exit/Entry Delay Time



Your security system has built-in exit and entry delay times.

To turn on security protection with no entry/exit delay time:

Do this	You will hear
<ul style="list-style-type: none">If you are staying in, enter # + your access code + 2 + 4. or If you are going away, enter # + your access code + 3 + 4.	<i>Alarm system is on level 2, no delay.</i> or Alarm system is on level 3, no delay.

Note

Changing the protection level will set the sensors back to their normal delay times unless 4 is again pressed after entering # + **your access code + new protection level.**

Turning Security Protection Off



Turning security protection off means you are **disarming** your system. Level 1-Off is also used to cancel most alarms (see “Canceling Accidental Alarms” in section 5).

To turn security protection off:

Do this	You will hear
<ul style="list-style-type: none">Enter # + your access code + 1.	Alarm system is off.

WARNING!

If you enter your home and controlled lights that are normally off are on and/or you hear alarm sirens, an intruder may be inside or another emergency may have occurred. The same may be true if you enter a door with an entry delay and instead of the normal entry delay beeps (two beeps every 2 seconds) you hear faster beeping (three beeps every 2 seconds). The alarm sirens may have “timed-out” and these faster beeps indicate that an alarm occurred. Leave immediately, and call for emergency help from a neighbor’s phone.

Checking Your System Status



The **status** feature allows you to quickly check the operations of your system anytime. It's a good idea to check your system status whenever you see a blinking arming level number on a touchpad display.

To check the current arming level (short status check):

Do this	You will hear
<ul style="list-style-type: none">• Press # + *.	<p>The system announces:</p> <ul style="list-style-type: none">• the arming level (1-Off, 2-Stay, or 3-Away) and system troubles if anyor• any recent alarms (This is only indicated the first status check after an alarm.)

Note

See section 9 for an explanation of status check messages.

To review recent activity in your home (full status check):

Do this	You will hear
<ul style="list-style-type: none">• Press # + your access code + * + 1.	<p>The system announces:</p> <ul style="list-style-type: none">• the arming level (1-Off, 2-Stay, or 3-Away)• system troubles if any, battery status, and power status• whether or not the energy saver is on and the current temperature (if energy saver is installed) or• any recent alarms (This is only indicated the first check after an alarm.)

Note

See section 9 for an explanation of status check messages.

To check for the most recent alarms (alarm memory):

Do this	You will hear
<ul style="list-style-type: none">• Enter # + your access code + * + 5.	<p>The system announces:</p> <ul style="list-style-type: none">• any recent alarms <p>or</p> <p><i>Alarm memory is OK.</i></p>

Note

See section 9 for an explanation of status check messages.

Section 7: Additional Phone Features

Setting and Changing Access Codes



An access code must be entered to begin most operations with your security system.

When setting or changing access codes:

- A “6” should not be used in any part of an access code. The “6” is reserved for bypassing sensors.
- The first digit of an access code should not be a “4” or “0” since this may interfere with system disarming.
- It is recommended that obvious codes such as 1234 or 1111 not be used.

To set or change an access code:

Do this	You will hear
1. Set the system to level 1 (disarm) by entering # + your access code + 1 .	Alarm system is off.
2. Get into change settings mode by entering # + your primary access code + * + 8 .	System memory open.
3. Enter 00 for the primary access code, from 01 to 04 for secondary access codes, or from 05 to 23 for arm/disarm codes.	
4. Wait 5 seconds.	System XX.
5. Within 5 seconds, enter the new four-digit code you want to use. (Once you begin entering the new code, you have 5 seconds to enter each number.)	

Do this	You will hear
6. Wait 5 seconds. If the system announces <i>fail</i> , refer to the help box that follows. Repeat steps 3 through 6.	XXXX OK.
7. Repeat steps 3 through 5 to set or change additional access codes.	
8. Exit change settings mode by entering 99 .	After 5 seconds, System 99. After 5 seconds, Good-bye.

Note

If you do not complete a step within 60 seconds your system announces *Goodbye* and exits change settings mode. If this happens, repeat steps 2–5.

To delete an access code:

Do this	You will hear
1. Follow steps 1 through 4 in the previous procedure.	
2. At step 5, enter your primary access code as the four-digit code you want to delete.	OK
3. Follow the rest of the steps to delete additional codes or to exit change settings mode.	

Note

You cannot delete your primary access code.

Using the Energy Saver Feature



The **energy saver** feature can override your normal heating and air conditioning temperature settings if you have this option installed.

Turning Energy Saver On and Off

To override your normal heating or air conditioning settings, turn on the energy saver feature. When you are ready to return to your normal temperature control settings, turn the feature off.

To turn the energy saver feature on or off:

Do this	You will hear
<ul style="list-style-type: none">Enter # + your access code + 5.	Energy saver is on. or Energy saver is off.

Setting Energy Saver Temperatures

Initially, you must set the energy saver to the desired high and low temperatures. You don't need to reset them again, unless you want to change temperature settings.

To set high and low energy saver temperatures:

Do this	You will hear
<ol style="list-style-type: none">If not done already, set the system to level 1 (disarm) by entering # + your access code + 1.	<i>Alarm system is off.</i>
<ol style="list-style-type: none">Get into change settings mode by entering # + your access code + * + 8.	<i>System memory open.</i>
<ol style="list-style-type: none">Enter 53.	
<ol style="list-style-type: none">Wait 5 seconds.	<i>System 53.</i>

Do this	You will hear
5. Within 5 seconds of the message, enter the desired low temperature (45°F or higher).	
6. Wait 5 seconds. If the system announces <i>invalid</i> , retry your entry from step 3.	<i>nn OK.</i> (nn = new setting)
7. Enter 54 .	
8. Wait 5 seconds.	<i>System 54.</i>
9. Within 5 seconds of the message, enter the desired high temperature (90°F or lower).	
10. Wait 5 seconds. If the system announces <i>invalid</i> , retry your entry from step 7.	<i>nn OK.</i> (nn = new setting)
11. Exit change settings mode by entering 99 .	After 5 seconds, <i>System 99.</i> After 5 seconds, Good-bye.

Controlling Lights and Appliances



Your security system can be used to control various lights and appliances in your home when plugged into special wireless lamp or appliance modules.

To turn all lights on or off:

Do this	You will hear
• Enter # + your access code + 0 .	<i>On</i> (if lights are off). <i>Off</i> (if lights are on).

Individual Light and Appliance Control

To turn individual lights and devices on and off:

Do this	You will hear
<ul style="list-style-type: none">Press # + #, then within 3 seconds, enter the light or appliance number you wish to turn on or off. (Your installer has these numbers.)	<p>nn on (if lights/devices are off), then one short beep.</p> <p>nn off (if lights/devices are on), then one short beep.</p>

Using the Quiet Mode Feature



If you are using your home phone with the quiet mode on, the usual voice messages for most commands are announced over the phone only. Many beeps will be silenced. (Exit beeps and arming level beeps when you turn security protection on or off *are* heard from internal speakers.) Quiet mode has no affect on touchpads that do not have a display (wireless). See the “Touchpad Operations” section for using quiet mode from a touchpad with display (alphanumeric).

When the quiet mode feature is off, *all* audio responses to commands will be announced through the internal speakers.

Note

The touchpad quiet mode must be left off in UL listed installations.

To turn the touchpad quiet feature on or off:

Do this	You will hear
<ol style="list-style-type: none">Turn security protection off by entering # + your access code + 1.	Alarm system is off.
<ol style="list-style-type: none">Enter # + your access code again and press * + 8.	System settings.
<ol style="list-style-type: none">Enter * + 7 7.	System 7 7.

Do this	You will hear
4. Wait 5 seconds.	<i>On</i> (if touchpad quiet was off). or <i>Off</i> (if touchpad quiet was on).
5. Exit the change settings mode by entering 9 9 .	After 5 seconds, System 9 9. After 5 seconds, Good-bye.

Using the Chime Feature



When you have security protection turned off (disarmed to Level 1-Off), you can turn on the **chime** feature to let you know if anyone enters or leaves, even though your doors and windows are not armed.

To turn the chime feature on and off:

Do this	You will hear
1. Turn security protection off by entering # + your access code + 1 .	Alarm system is off.
2. Enter # + your access code + 7 .	On. or Off.

The No Activity Feature



Your security system monitors normal activities in your home.

What happens when the no activity feature activates:

Do this	You will hear
1. If no activity is recorded for the set time frame:	Help, help sensor 7 9. Auxiliary alarms will sound only from interior sirens.
2. If alarm is not canceled within 5 minutes, the central monitoring station is called and emergency personnel are sent. Sirens will stop once the message has reached the central monitoring station.	
3. Cancel alarm within 5 minutes if there is no emergency by entering # + your access code + 1.	One long beep, then <i>Alarm system is off, alarm bypassed.</i>

Note

The no activity feature is only available if your installer has turned it on.

The Touchpad Tamper Feature

The **touchpad tamper** feature monitors the number of keys pressed on a touchpad or phone in your home or business.

What happens when the touchpad tamper feature is activated:

Do this	You will hear
<ul style="list-style-type: none"> If approximately 40 or more keys are pressed without hitting a valid code: 	Help, help, sensor 7 7.

Note

An incorrect key press is defined as any number key that is not part of a valid access code.

Using Your Phone with Electronic Banking and Voice Mail

Your security system can be connected to the central monitoring station through your phone line. Certain types of calls can confuse your system and cause an accidental alarm or interfere with a real emergency. To avoid any problems, you should temporarily disable security system phone commands from your phone line if

- the call you place requires the use of the # and/or * keys, as with electronic banking or voice mail;
- you call to operate another security system from your home.

To temporarily disable security system phone commands from your phone line:

Do this	You will hear
<ol style="list-style-type: none">1. Press # + your access code + * + 6.2. You can now place a call and your security system will ignore the use of the # and * keys. Once you hang up, your security system will again recognize the tones of the # and * keys.	

Opening and Closing Reports Feature

If you want to monitor the use of your security system, the **opening** and **closing reports** feature, set up by your installer, sends details of the arming and disarming activities of your system to the central monitoring station.

If the opening and closing reports feature is installed:

After you arm or disarm your security system, your phone lines will be briefly tied up when your system reports to the central monitoring station.

System Tests

Automatic Test Features

Your security system is able to automatically test itself and alert you if it discovers any system problems. You can find and fix most system troubles yourself (see section 9, “Troubleshooting”); however, some system troubles may require you to call your security system dealer for assistance.

Possible Trouble Signals

When your security system detects a problem, interior sirens sound trouble beeps rapidly six times, and then again in 60 seconds, continuing this pattern until the trouble condition is fixed. If your system is in level 2 or 3 and a problem occurs, most trouble beeps won’t start until you disarm your system to level 1. If you do a status check (see “Checking Your System Status”) or change the arming level, beeps and voice messages will stop. If the problem is not corrected, beeps and voice messages start again 10 hours later (four hours later on UL-Listed installations).

Trouble Messages

AC Power Failure

Your system may have been accidentally unplugged from AC power or there may be an AC power outage. The backup battery will take over. If AC power is not restored within 15 minutes, the system will alert you (and the central monitoring station if your installer enabled this feature).

AC Power Failure	You will hear
------------------	---------------

- | | |
|---|-------------------|
| 1. Press # + * to check the condition of your system. | AC power failure. |
|---|-------------------|

AC Power Failure**You will hear**

2. If the power goes out or your system is accidentally unplugged and power isn't restored within 15 minutes:
- *90-TROUBLE AC POWER* is reported to the central monitoring station if your installer has turned this feature on.
 - If you have the energy saver feature on, it will shut down to conserve battery power and control will be returned to your furnace thermostat.
 - If AC power failure lasts long enough to drain the backup battery to the "low battery" level, the system will tell you that you have a low battery problem.

System Battery Failure

This means that the emergency backup battery has been drained and must be recharged or replaced. If your AC power is not working, your security system may shut down once the battery is drained. When AC power is restored, your security system will recharge its battery.

System Battery Failure**You will hear**

- *91 TROUBLE CPU LOW BATTERY* is reported to the central monitoring station.
- Six trouble beeps from interior sirens.

Sensor Failure

The sensor indicated is not communicating with the system.

Sensor Failure	You will hear
1. If your system is set up to sound immediate trouble beeps, or if the sensor with the problem is a hardwire sensor, trouble beeps start immediately.	Six trouble beeps, then <i>Sensor nn failure</i> (if sensor is wireless), or <i>Sensor nn trouble</i> (if sensor is a hardwire).
2. Press # + * to find out what the trouble is.	
3. If your system is <i>not</i> set up to sound immediate beeps, and the troubled sensors are wireless , beeps begin after 10 hours if the problem is not corrected. (On UL-Listed installations, immediate beeps will sound and again in four hours if problems is not corrected.)	

Sensor Trouble

The sensor indicated has an internal problem. The battery may be low or the sensor cover may be off. The sensor may still be working.

Sensor Trouble	You will hear
1. If the problem is a low battery:	Sensor nn low battery.
or	
2. If the sensor cover is open:	Sensor nn trouble.
3. If the problem is not corrected within seven days trouble beeps begin.	

Fire Sensor Trouble

A fire or smoke sensor has not been properly reset after activation.

Fire Sensor Trouble	You will hear
1. If sirens are still on, turn them off by entering # + your access code + 1 .	One long beep, then <i>Alarm system is off.</i>
2. If you wish, check which hard-wire smoke detectors are open by locating those with a light on.	
3. To reset hardwire smoke detectors, enter # + your access code + 1 again.	One long beep, then <i>Alarm system is off.</i>
4. Wireless smoke detectors automatically reset themselves when all smoke clears.	

Fail-to-Communicate

Your security system cannot communicate an alarm to the central monitoring station. Your system will try to report to the central monitoring station three times before it tells you there is a fail-to-communicate problem. It will then try five more times.

Fail-to-Communicate	You will hear
	Phone failure trouble.

If the control panel discovered the fail-to-communicate while attempting to send an auxiliary or silent alarm, the system will change to a police siren. Once the siren shuts off, trouble beeps begin.

Manual Tests

The tests your security system automatically performs provide continuing reassurance that it is working properly. There are also system tests you can do yourself on a regular basis as an added safeguard.

It is recommended that you test the system on a weekly basis.

Testing Sensors

The sensor test checks all sensors, including panic buttons and motion detectors. Part of the sensor test requires you to walk through your home or business and open, or trip, each sensor.

To perform the sensor test:

Do this	You will hear
1. Set the system to level 1 (disarm) by entering # + your access code + 1 .	One beep, then Alarm system is off.
2. Then, enter # + your access code + 9 .	One beep, then Sensor test is on.

Note

The 9 on the display will flash during the test. During sensor testing, tripping a sensor will not cause an alarm.

The 15-minute test is started and the alarm memory is cleared. Every 60 seconds the system will sound a short beep and announce sensor test is on.

Now, walk through your home or business, tripping sensors as indicated in the “Sensor Test Tripping Instructions” table located in Section 4.

Do this	You will hear
1. As you trip each sensor following the tripping instructions: (If the control panel does not receive the signal from a sensor you won’t hear anything. This is how you tell if a sensor is bad.)	One beep as each sensor is tripped, then Sensor nn OK is announced after the sensor is tripped if sensor is working properly.
2. Press the * key when you think all sensors have been tested.	The system announces untested sensor numbers.

Do this

You will hear

-
-
- | | |
|---|---|
| 3. After 15 minutes the system will exit test to level 1. Press # + your access code + 9 while the system is still in sensor test if you need more time to trip sensors. The system will stay in sensor test for an additional 15 minutes. | |
| 4. After all sensors have been tested, press the * key. | Sensor test is on, then All sensor test OK. |
| 5. To exit sensor test enter # + your access code + 1 . | Alarm system is off. |

Testing Communication with the Central Monitoring Station

One of the most important benefits of your security system is the ability to react and call for help immediately. To do this, your system talks to a central monitoring station through your telephone lines. Test the communication ability regularly to make sure you have the proper telephone link between your system and the central monitoring station. Some central monitoring stations require you to call them before starting this test. Remember to check with them first.

Note

If your system is not connected to a central monitoring station, you won't need to do this test.

Performing a Phone Communication Test

Do this

You will hear

-
-
- | | |
|---|--|
| 1. Set the system to level 1 (disarm) by entering # + your access code + 1 . | One beep, then Alarm system is off. |
| 2. Then, enter # + your access code + 8 . | One beep, then Phone test is on.

Phone test is OK, alarm system is off.
(If the test didn't fail.) |

Notes

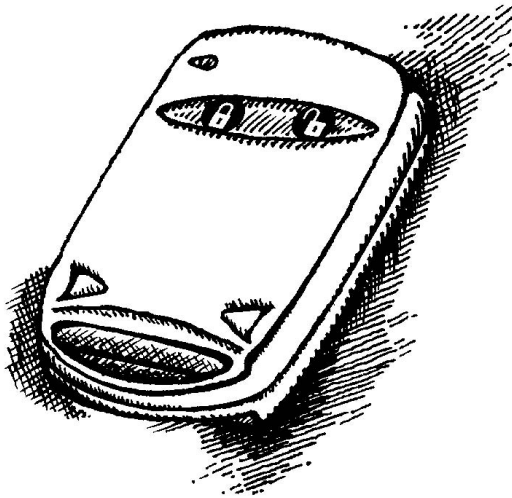
The arming level can be changed to level 1 then to level 2 or 3 if you wish, any-time after the test has started. (If you change arming level, you will not hear *Phone test is OK, alarm system is off* at the end of the test.) The phone test will continue whether or not the display reads *PHONE TEST*. Most phone tests take less than 15 minutes. However, your system will try for up to 15 minutes to establish communication with the central monitoring station. Some central monitoring stations may require that you call them before performing a phone test. Check with yours before you start this test.

If you start the phone test from a remote phone (off-site), your security system will go back to the level it was in before the test.

If service is required, contact:

Keychain Touchpad Operations

- Keychain Overview 88
- Section 8:
Basic Keychain Operations 89



Keychain Overview

A keychain touchpad can be used to operate the basic functions of your security system. The keychain allows you to conveniently keep a touchpad handy for entering and exiting your home.

Use the procedures in this section only when using a keychain touchpad. Other touchpad operations and phone operations are more extensive than the functions performed by a keychain touchpad. Turn to the “Touchpad Operations” and/or “Phone Operations” section of this manual for additional operating instructions.

Section 8: Basic Keychain Operations

Using Panic Alarms: Police, Silent, and Auxiliary



Panic alarms are used to quickly alert the central monitoring station to an emergency in your home. Your installer can enable the police, silent, or auxiliary panic alarm on your keychain touchpad. When a panic alarm is activated, the central monitoring station knows immediately what your emergency is. This information helps emergency personnel respond appropriately.

All panic alarms call the central monitoring station, but each sounds and reacts differently when activated.

- The **police panic alarm** is a loud, steady-on tone sound from interior and exterior sirens to scare off an intruder and alert neighbors to your trouble. The central monitoring station responds by calling the police.
- The **silent panic alarm** does not sound an alarm at your home or business but silently tells the central monitoring station to send police to your home or business.
- The **auxiliary panic alarm** is a fast on-off-on-off tone from interior sirens only to signal a medical or other type of emergency. The central monitoring station responds by calling the service or agency, such as an ambulance, you have designated.

The order of alarm priority is as follows: fire, police, and auxiliary. A higher priority alarm will cause the lower priority alarm sound to change.

Emergency panic alarms are active in all security levels if your installer has turned them on.

Sending a Panic Alarm

To send a panic alarm:

Do this	If within range of a system speaker, you will hear
---------	--

- **Police, Silent, or Auxiliary Panic Alarm**

From a 2- or 4-button keychain, press and hold the **Unlock** and **Lock** buttons together until the light blinks.

A loud beeping alarm, then *Help Help...sensor nn*. (If the silent alarm is enabled, you will not hear beeps or announcements.)

- **Auxiliary Panic Alarm**

From a 4-button keychain, press and hold the **Star** and **Lights** buttons together until the light blinks.

A loud rapidly beeping alarm, then *Help Help...sensor 8, 2*.

Canceling a Panic Alarm

To cancel a panic alarm:

Do this	If within range of a system speaker, you will hear
---------	--

1. Within 15 seconds of activating the alarm, press and hold the **Unlock** button until the light blinks.

One long beep, then *Alarm system is off*.

If canceled, *Alarm bypassed*.

2. If 15 seconds have already passed, call the central monitoring station to cancel the alarm.

Turning Security Protection On



Turning security protection on means you are **arming** your system. Your installer can set up your keychain touchpad to either increase the

arming level each time the lock button is pressed (level 1 to level 2, level 2 to level 3) or to arm directly to level 3 with no exit/entry delay.

- **Level 2-Stay** turns on protection for exterior entrances like doors and windows but doesn't arm *interior* sensors like motion detectors. You might use Level 2-Stay at night when everyone is sleeping or anytime you want the freedom to move around inside your home with outside doors and windows protected.
- **Level 3-Away** turns on protection for all security sensors, including exterior doors and windows and interior motion detectors and doors. Use Level 3-Away for complete security protection when no one is in your home.
- **Level 3-Away, No Delay** offers the same level of protection as Level 3-Away, however the "no delay" option cancels the exit or entry delay, immediately turning security protection on. Use this option when no one will exit or enter after your system is armed.

You can also arm your system with a door or window open. While the rest of your home, and second-floor window, for example, can be "by-passed" and left open and unarmed.

To turn security protection on:

Note

The exit delay is the period defined by your installer for you to exit after turning security protection on. The programmed exit delay is _____ seconds.

Do this	If within range of a system speaker, you will hear
1. Press and hold the Lock button until the keychain light blinks. Security protection will be turned on as programmed (level 2 or 3).	Two or three short beeps, then <i>Alarm system is on level (2 or 3)</i> .
2. If anyone is exiting, do so during the exit delay period. An alarm will sound if you exit after the delay period is over.	One beep every 4 seconds for most of the delay, then one beep every second for the last 10 seconds of the delay. Two or three short beeps indicating the end of the exit delay.

Do this

If within range of a system speaker, you will hear

3. If your keychain is programmed to do so, you can cancel the exit delay by pressing the **Star** button until the keychain light blinks.

No delay.

Note

If an alarm sounds, turn security protection back off and then investigate the problem. See the help box for details.

To turn security protection on with a door or window open:

Do this

If within range of a system speaker, you will hear

1. Press and hold the **Lock** button.
2. Press and hold the **Lock** button again.

Sensor nn open, protest beeps (long-short-long).

Alarm system is on level 2 (or 3), sensor nn bypassed.

Help!

What if I receive the protest message *Sensor nn is open*?

This means the system detects an open window, door, or other sensor. You can close the window or other open sensor, and then repeat the procedure to turn on security protection. If you prefer to leave the window or other sensor open, follow the “Arming with a Door or Window Open” procedure for turning security protection on with a door or window open.

Note

If you arm your system, exit, and accidentally leave the door open, then when the exit delay time expires, the police alarm will sound and the central monitoring station will be notified of an **exit fault**. Check with your central monitoring station for its procedures following this alarm.

CAUTION

If open doors or windows caused the protest beeps and they are left open, they will not be protected.

Turning Security Protection Off



Turning security protection off means you are **disarming** your system. When you disarm to Level 1-Off, you turn off all protection to doors, windows, and motion detectors. However, your security system is not completely off in level 1. Some features, like police, silent, and auxiliary panic buttons, are still on. You might use Level 1-Off when you enter or when you want to go in and out of your home freely and do not wish to have any intrusion sensors on. Level 1-Off is also used to cancel an accidental alarm.

To turn security protection off:

Do this

If within range of a system speaker, you will hear

-
- Press and hold the **Unlock** button until the light blinks.

One long beep, then *Alarm system is off.*

WARNING!

If you enter your home and controlled lights that are normally off are on and/or you hear alarm sirens, an intruder may be inside or another emergency may have occurred. The same may be true if you enter a door with an entry delay and instead of the normal entry delay beeps (two beeps every 2 seconds) you hear faster beeping (three beeps every 2 seconds). The alarm sirens may have “timed-out” and these faster beeps indicate that an alarm occurred. Leave immediately, and call for emergency help from a neighbor’s phone.

Help!

What if pulsing beeps sound after I turn protection off?

This indicates an alarm occurred while the system protection was on. To cancel the beeps, repeat the procedure to turn protection off. (Press and hold the **Unlock** button.) Use a full-key touchpad and press **COMMAND + STATUS** to find out what alarm occurred or press **# + CODE + * + 5** from a touch-tone telephone.

CAUTION

If an alarm occurred while you were away, an intruder may still be in your home. You should have emergency personnel check out the situation before you enter.

Using the Energy Saver Feature



The **energy saver** feature can override your normal heating and air conditioning temperature settings. This allows you to use more energy-efficient settings when you are away from your home or business. For example, if your heating system at home is usually set at 68°F, you can turn the energy saver on and set the temperature to 55°F while you are away. You can call your system from work to check the tempera-

ture and turn the energy saver *off* to give temperature control back to your furnace thermostat. Your house then heats to your furnace temperature setting. In this case, 68°F. You control your air conditioning temperatures the same way.

In addition to controlling temperature, the energy saver feature notifies the central monitoring station if your heating or air conditioning unit fails, before pipes freeze or pets are harmed by extreme heat or cold.

Turning Energy Saver On and Off

To override your normal heating or air conditioning settings, turn on the energy saver feature. When you are ready to return to your normal temperature control settings, turn the feature off. You use the same steps for turning the feature on and off.

Note

The following keychain procedures can be used for either the energy saver feature or to instant arm (no delay) depending on how your installer programmed your keychain. Ask your installer for details.

To turn the energy saver feature on or off:

Do this	If within range of a system speaker, you will hear
<ul style="list-style-type: none">Press and hold the Star button until the light blinks. Energy saver turns on (if it was off) or off (if it was on).	Energy saver is on, then one short beep. or Energy saver is off, then one short beep.

Controlling Lights and Appliances



Your security system can be used to control various lights and appliances in your home when they are plugged into special wireless lamp or appliance modules. These modules connect your lights or appliances to your security system, allowing you to turn them on and off using touchpads or your telephone. You can turn all devices plugged into a lamp module on or off at the same time or turn individual lights on and off.

The lights connected to your security system also play an important role in emergency situations. For example, all lights connected to your security system automatically turn on during alarms. Some lights turn on when you enter or exit and remain on for 5 minutes, giving you ample light and time to see your way.

Your keychain touchpad allows you to make controlled lights flash on and off continuously. You might use this feature if you are in bed and hear a noise downstairs. The lights may scare off an intruder inside, and if the noise is not an intruder or other emergency, you won't unnecessarily wake your neighbors.

To turn all lights on or off:

Do this

If within range of a system speaker, you will hear

-
-
- Press and hold the **Lights** button until the light blinks. *On* (if lights are off), then one short beep.
Off (if lights are on), then one short beep.

To make controlled lights flash on and off continuously:

Do this

-
-
1. Press and hold the **Lights** button for about 3 seconds.
 2. To stop the lights from flashing, turn security protection on or off, or press any key on your keychain touchpad.

Help!

How do lights connected to my security system react during an alarm?

Alarm sirens automatically stop ringing after 4 minutes, however, lights caused by an alarm will stay on until the system is reset by disarming.

- During both fire and auxiliary alarms, lights turn on and remain on with *no flashing* until 5 minutes after your system is disarmed or armed to a new security level.
- During a police alarm, lights *flash* on and off until the siren is canceled or after 4 minutes. After 4 minutes, lights remain on steadily until 5 minutes after your system is disarmed.
- During an intrusion alarm, lights *flash* on and off until the siren is canceled or after 4 minutes. After 4 minutes, lights remain on steadily until 5 minutes after your system is disarmed.
- During entry and exit delay time, selected lights turn on and remain on for 5 minutes.

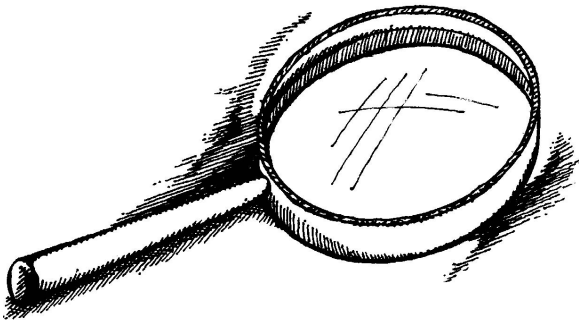
Notes

The operation of the lights in an alarm condition is supplementary to the alarm siren.

Lamps plugged into lamp modules set to unit setting 1 turn on during entry or exit delays. Lamps plugged into lamp modules set to unit setting 2 flash one, two, or three times when the arming level is changed to level 1, 2, or 3. Appliance modules will turn off when all lights are turned off.

Troubleshooting

- Section 9:
Troubleshooting 100



Section 9: Troubleshooting

Security System Sounds

Your security system uses a variety of different alarm sirens, status beeps, voice messages, trouble beeps, and indicator lights to communicate with you. The next few pages describe the different sounds and what they mean. Try to familiarize yourself with the differences. You will hear some sounds each time you tell your security system to do something, like arm or disarm. Some sounds you will hear only when there is a problem with the system, like a low battery. And, there are sounds you will only hear in an emergency. Getting to know your system sounds allows you to react quickly and appropriately to the messages you hear.

Sounds You'll Hear When an Alarm Is Tripped

Exterior and interior sirens produce different alarm sounds that indicate the conditions described below.)

Alarm Type	Alarm Sound	Sound Pattern
Police or Intrusion Alarm	Loud, steady tone	_____
Fire Alarm	Loud, repeating three long tones	___ ___ ___
Auxiliary Alarm	Loud, on-off-on-off short tones	_ _ _ _ _

Notes

If a police alarm is sounding and then a fire alarm is tripped, the fire alarm overrides the police alarm. The police and fire alarms override an auxiliary alarm.

Sirens will “time-out” (shut off) after sounding for a certain length of time. The default siren time-out is 4 minutes. This means that after an alarm has gone off, the sirens will stop ringing after 4 minutes. The alarm is still in progress after the sirens time-out, until you manually disarm your system. Your installer can set the siren time-out anywhere from 1 minute to 30 minutes (4 minutes minimum for UL-Listed installations).

Sounds You'll Hear When Operating Your System

The touchpad with display (alphanumeric) and all interior sirens and piezos (speakers) produce operating beeps and trouble beeps to tell you what your system is doing or if there is a problem. The table below describes the operating and trouble beeps you may hear from your system.

Type of Sound	Sound Pattern	What These Sounds Mean
When You Arm or Disarm	1 beep	Your system disarmed to level 1.
	2 beeps	Your system armed immediately to level 2 or armed to level 2 and exit delay has expired.
	3 beeps	Your system armed immediately to level 3 or armed to level 3 and exit delay has expired.
When You Enter or Exit	1 beep every 4 seconds	Your system is armed and the exit delay is in progress. (Beeps sound once per second during last 10 seconds.)
	2 beeps every 2 seconds	Your system is armed and the entry delay is in progress. (Beeps sound once per second during last 10 seconds.)
	3 beeps every 2 seconds	Your system is armed, an alarm has occurred, the alarm sirens have already "timed-out," and the entry delay is in progress. (Beeps sound once per second during last 10 seconds.)
Chime Feature On	2 beeps (short beeps)	Your system is in level 1, the chime feature is on, and an exterior sensor like a door or window is opened.

Type of Sound	Sound Pattern	What These Sounds Mean
Protest Beeps	2 beep continuous sequence (1 long, 1 short)	<p>You are trying to arm to level 2 or 3 with an exterior sensor like a door or window open. Close the sensor or see section “Arming with a Door or Window Open.”</p> <p>or</p> <p>You are trying to disarm after an alarm has occurred and the alarm sirens have already “timed-out.”</p>
System Trouble Beeps	6 beep sequence once every 60 seconds (6 beeps may sound for any of these reasons)	<ol style="list-style-type: none"> 1. Your system has an AC power failure. 2. Your system has low sensor or touchpad battery. 3. Your control panel can't communicate with a hardwire device, such as a hardwire sensor. 4. Your system has sensor or touchpad failure. 5. Your system has a low battery. 6. The energy saver feature stops reporting. 7. Your system has failed to communicate with the central monitoring station. 8. Your system memory has failed. 9. There is a siren wiring problem (if feature is on). <p>Press the STATUS button to find out which problem is occurring.</p>

Sounds You'll Hear if There Is a Problem with Your System

This table describes the conditions under which trouble beeps occur and when they begin. (These sounds are heard from interior sirens and touchpads if available.)

Condition	When Beeps Begin	Levels in Which Beeps Sound
AC Power Failure	15 minutes after failure is detected. (If programmed to do so, a report is sent to the central monitoring station at this time.)	Level 1.
Fail-to-Communicate	After third dial attempt.	Levels 1 and 2.
Hardwire Sensor Trouble	As soon as the control panel detects the condition.	Levels 1 and 2.
Panel Low Battery	As soon as the control panel detects the condition.	Levels 1 and 2.
Phone Fail Trouble	As soon as the control panel detects the condition.	Levels 1 and 2.

Basic Displays on Your Touchpad

The table below is a very basic listing of alphanumeric touchpad display elements.

Display*	No Flashing Number	Flashing Number [†]
1-OFF	System is off and not armed.	A sensor is opened or something is wrong, such as a low battery or sensor failure.
Display*	No Flashing Number	Flashing Number [†]

2-STAY	System is armed to level 2.	System is armed to level 2, and a door or window sensor has been bypassed or something is wrong, such as a low battery or sensor failure.
3-AWAY	System is armed to level 3.	System is armed to level 3, and a door or window sensor has been bypassed or something is wrong, such as a low battery or sensor failure.

*Not all touchpads have a display available.

†The most common reason a display number flashes is that security protection has been turned on with a door or window open (sensor bypass).

Silencing Trouble Beeps

Pressing the STATUS button on a touchpad, pressing # + * from any phone, or changing the arming level while the system has a trouble condition stops trouble beeps and voice messages. Trouble beeps begin again 10 hours later unless the trouble condition is resolved (4 hours later on UL-Listed installations).

Troubleshooting Problems

This section contains a summary of system troubleshooting techniques.

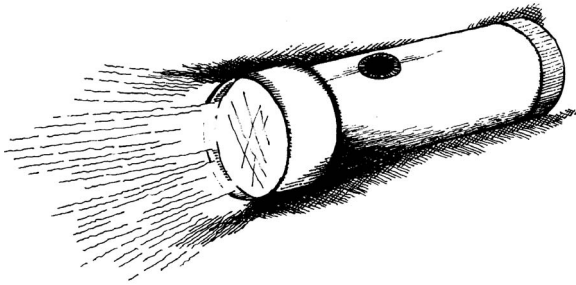
Troubleshooting System Problems

Feature	Problem	Solution
Arming/ Disarming	System won't arm.	<ol style="list-style-type: none">1. If arming to level 2 or level 3, make sure all monitored perimeter doors and windows are closed.2. Press # + * for a voice message of the problem.3. Someone else is controlling your system from a different touchpad or phone.
Bypass	Panel announces <i>Invalid</i> when you try to bypass a sensor.	You are trying to bypass a 24-hour sensor that cannot be bypassed or a sensor that is not active in the current security level. You don't need to bypass this sensor.
Batteries	Panel announces <i>System battery failure</i> or <i>Sensor nn low battery</i> .	Call your security system installer.
False Alarm	Alarm is being sent.	Enter your access code + 1 to cancel the alarm. This command bypasses the alarm if done within 15 seconds and does not send a call to the central monitoring station. Fire alarms will send a call to the station even after canceling.
Smoke Sensor	Beeps once every minute.	Batteries are low. Replace the smoke sensor batteries.

Feature	Problem	Solution
Trouble Beeps	6-beep sequence once every 60 seconds.	Press # + * for a voice message of the problem. This disables the trouble beeps for 10 hours (4 hours on UL-Listed installations). Most problems won't start beeps in level 2 or 3.
Lamp Modules	Lights controlled by the lamp modules do not work.	<ol style="list-style-type: none"> 1. Make sure the lamp has a working bulb. 2. Check the lamp's operation at a working outlet. 3. Make sure the lamps are plugged into the lamp module and the lamp modules are plugged into outlets not controlled by a switch. 4. Commands are ignored if someone is pressing keys on another touchpad or is using the phone to control your system.

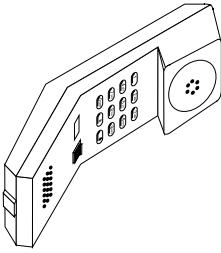
References

- Appendix A:
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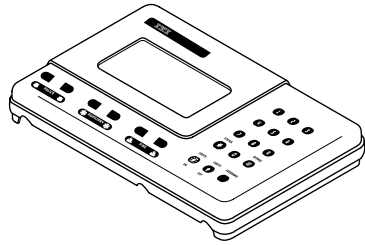


Appendix A: Equipment Considerations

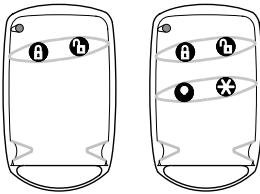
Options for Operating Your Security System



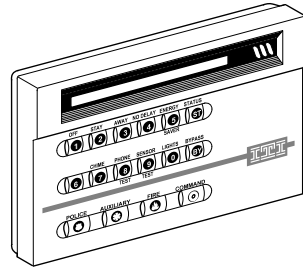
**Touch-Tone
Telephone**



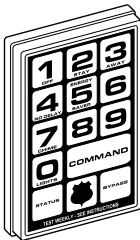
**2-Line LCD
Alphanumeric Touchpad**



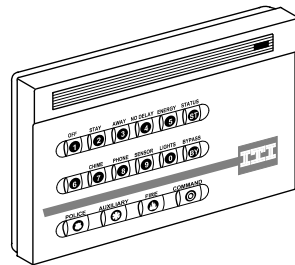
**Keychain
Touchpads**



**Alphanumeric Touchpad
with Display**



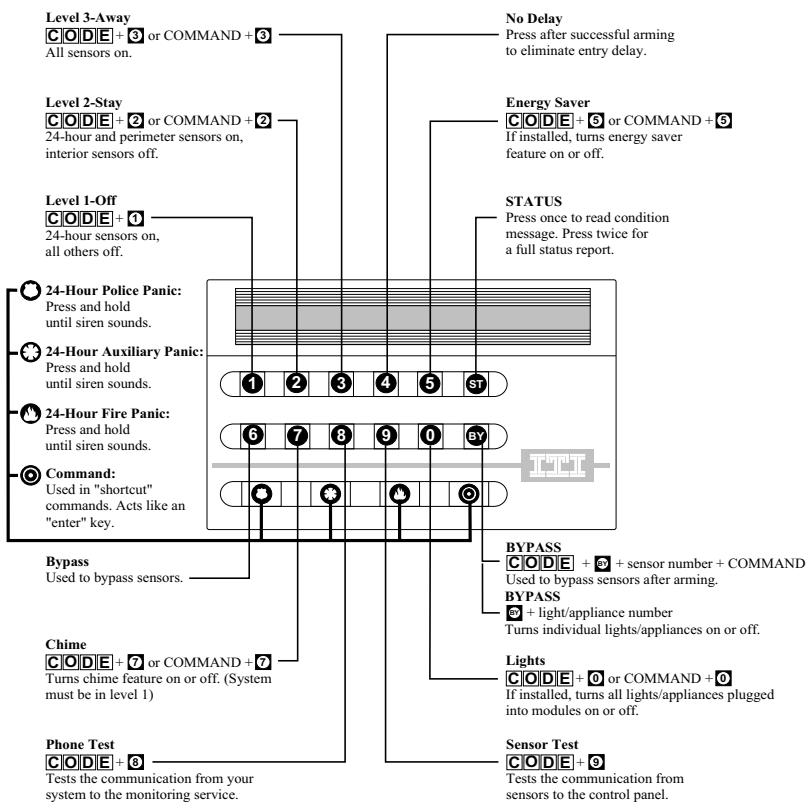
**Handheld
Wireless Touchpad**



Wireless Touchpad

8557128C

Alphanumeric Touchpad Features



8557130C.DS4

Touch-tone Phone Commands

Your installer can program your system's phone commands to work one of two ways:

1. *Normal Setting* - The **#** key is programmed to begin all phone commands and the ***#** key functions as the **STATUS** button on a full-key touchpad.

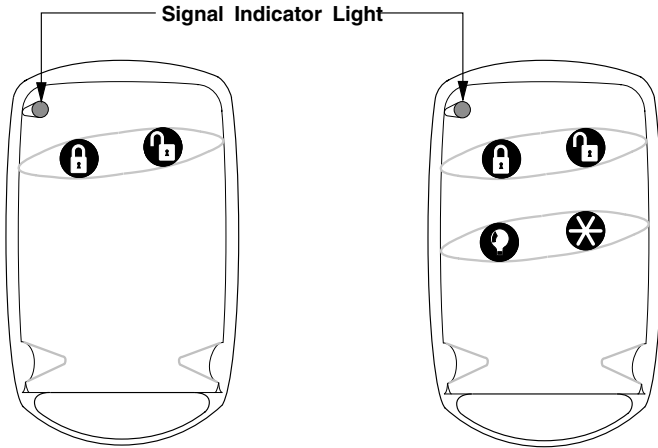
or

2. *Programmed by Request* - The ***#** key is programmed to begin all phone commands and the **#** key functions as the **STATUS** button on a full-key touchpad.

All numbers
can be used
for an access
code.

1	# + C O D E + 1 turns security protection to Level 1-Off.
2 abc	# + C O D E + 2 turns security protection to Level 2-Stay.
3 def	# + C O D E + 3 turns security protection to Level 3-Away.
4 ghi	# + C O D E + 2 or 3 + 4 cancels the exit delay period.
5 jkl	# + C O D E + 5 turns the energy saver feature on and off.
6 mno	# + C O D E + 2 or 3 + 6 "bypasses" an open sensor when arming system. # + C O D E + 6 + sensor number bypasses a sensor while system is already armed.
7 prs	# + C O D E + 7 turns the chime feature on and off.
8 tuv	# + C O D E + 8 starts the test to check the phone communication between your system and the central monitoring station.
9 wxz	# + C O D E + 9 starts the test to check your system's sensors.
0 oper	# + C O D E + 0 turns controlled lights on and off. # + C O D E + 2 or 3 + 0 turns entry/exit lights on and off.
#	Normal setting - Begins all phone commands. (See information at top of page.) # + # + light/appliance number controls individual lights and devices.
*	Normal setting - Functions as the STATUS button on a touchpad. (See information at top of page.)

Keychain Touchpad Features



Lock and Unlock Buttons

Together they activate the police or silent panic alarm.



Lock Button

Turns security protection on.

Unlock Button

Turns security protection off.



Lights and Star Buttons

Together they activate the auxiliary panic alarm.



Lights Button

Turns controlled lights on and off.
Also used to make controlled lights flash continuously.

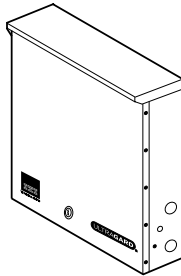
Star Button

Used to cancel exit delay or to turn the energy saver feature on, depending on how your installer set this up.

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Additional Components

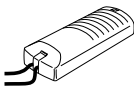
Your security system is compatible with a variety of security system components.
Choose the devices you want to customize your security environment.
Refer to installation instructions or device marking for model number.



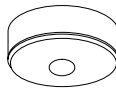
Control Panel



**Water-Resistant
Pendant Panic
Sensor**



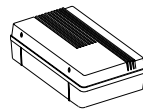
**Pendant Panic
Sensor**



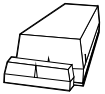
**Rate-of-Rise
Heat Sensor**



**Freeze
Sensor***



**Hardwire Interior
Siren and Piezo**



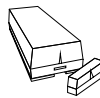
**Door/Window
Sensor**



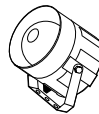
**Smoke
Detector**



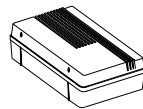
**DS-924
Motion
Detector**



**Shock
Sensor***



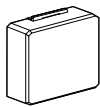
**Hardwire
Exterior
Siren**



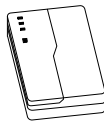
**Interrogator 200 Alarm
Verification Module***



X-10 Lamp Module



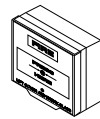
**Energy Saver
Module**



**Intellisense
Sound Sensor
(Glass Break Detector)**



**Glass Guard
Sensor***

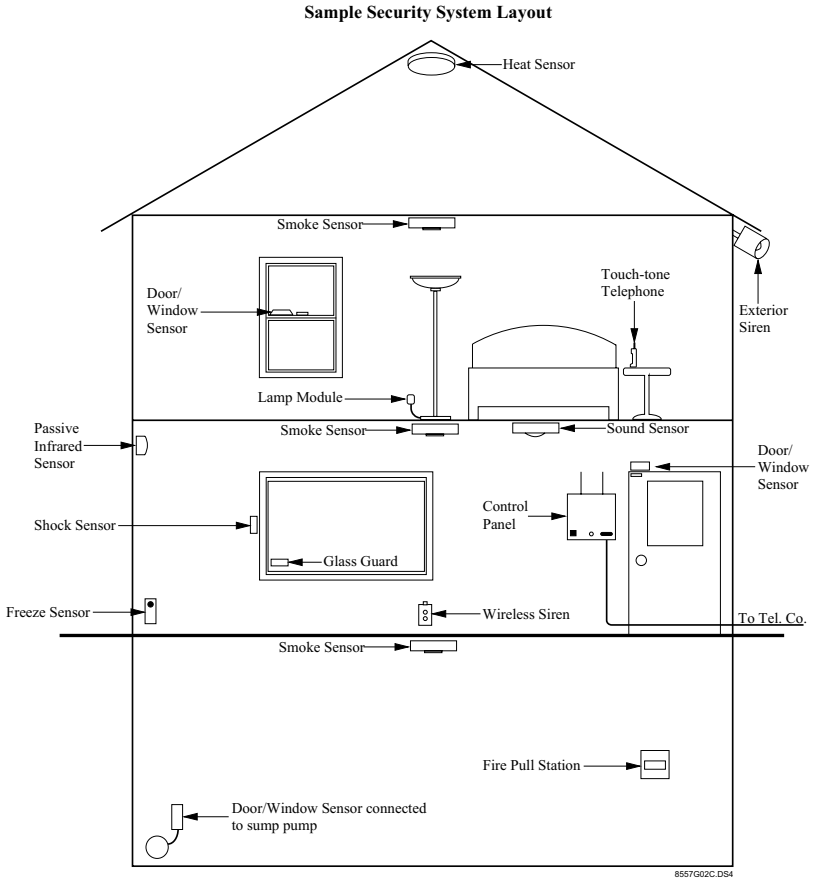


**Fire Alarm
Pull Station***

* Not UL listed

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The following shows a typical installation layout. Some devices are not UL listed and may not be included in your system. See Installation Instructions for details.



Appendix B: Touchpad Shortcuts

Your security system lets you use some shortcuts to operate it. The following table lists the operations that have shortcuts. Some shortcut commands limit your control, so we recommend that you use these only after you are familiar with the features of your security system and are proficient at using the system.

Summary of Touchpad Operations and Shortcuts

Activity to Perform		Basic Entry	Shortcut Entry	You Will Hear
Turning protection on—staying in	Basic procedure	your access code + 2	COM-MAND + 2*	Alarm system is on level 2.
	And cancel the exit delay	your access code + 2 + 4	COM-MAND + 2 + 4*	Alarm system is on level 2. No delay.
Turning protection on—going away	Basic procedure	your access code + 3	COM-MAND + 3*	Alarm system is on level 3.
	And cancel the exit delay	your access code + 3 + 4	COM-MAND + 3 + 4*	Alarm system is on level 3. No delay.
Chime on/off	Turn chime on or off.	your access code + 7	COM-MAND + 7	On or Off.
Lights on/off	Turn all lights on or off	your access code + 0	COM-MAND + 0 or BYPASS + BYPASS	On or Off.

Summary of Touchpad Operations and Shortcuts (Continued)

Energy saver on/off	Turn energy saver on or off	your access code + 5	COM-MAND + 5	Energy saver is on/off, then one short beep.
Full status check	Review recent activity	your access code + STATUS + 1	STATUS + STATUS	Arming level beeps, then messages.
Alarm memory	Check recent alarms	your access code + STATUS + 5	COM-MAND + STATUS	Arming level beeps. Then, messages about alarms. or <i>Alarm memory is OK.</i>

*This shortcut only works when arming to a higher level.

Appendix C: Planning for Emergencies

This section describes what you can do to plan ahead for an emergency.

- Emergency Planning
- Floor Plan Example
- Your Floor Plan

Emergency Planning

Since an emergency is always unexpected, you should develop plans to help prepare for a variety of emergency situations. Periodically discuss and rehearse emergency plans that include the following:

- Understand how to use your security system.
- Know the normal state of doors and windows; open, closed, or locked.
- Escape fast! (Do not stop to pack.)
- Use a different escape route if closed doors feel hot to the touch.
- Crawl and hold your breath as much as possible to help reduce smoke inhalation during your escape.
- Meet at a designated outdoor location.
- Emphasize that no one should return to the premises if there is a fire.
- Notify fire department from a neighbor's phone.

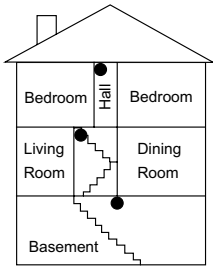
Emphasize that no one should enter the premises if they hear sirens.

CAUTION

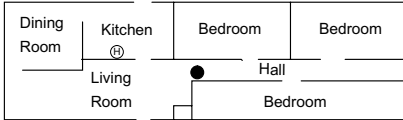
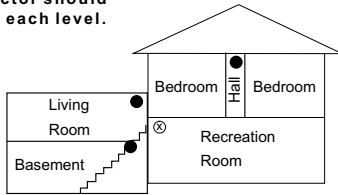
If you arrive at the premises and hear sirens, do not enter. Call for emergency assistance from a neighbor's phone.

Floor Plan Example

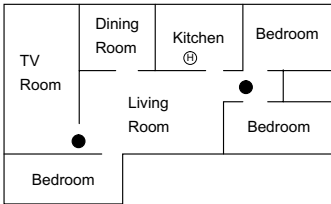
The figure on the next page shows an example of a multilevel floor plan. Use this example as a guide and draw your floor plan on the blank page provided.



A smoke detector should be located on each level.



Smoke detectors should be located between the sleeping area and the rest of the family living unit.



In family living units with more than one sleeping area, locate a smoke detector at each area.

NOTE: Ceiling-mounted smoke detectors should be located in the center of the room or hall, or not less than 4 inches from the wall. When the detector is mounted on the wall, the top of the detector should be 4 to 12 inches from the ceiling.

NOTE: Do not install smoke detectors where normal ambient temperatures are above 100°F or below 40°F. Also, do not locate detectors in front of AC/ Heat registers or other locations where normal air circulation will keep smoke from entering the detector.

NOTE: Additional information on household fire warning is available at nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. Request Standard No. NFPA74.

● Required smoke detector

Ⓜ Heat detector

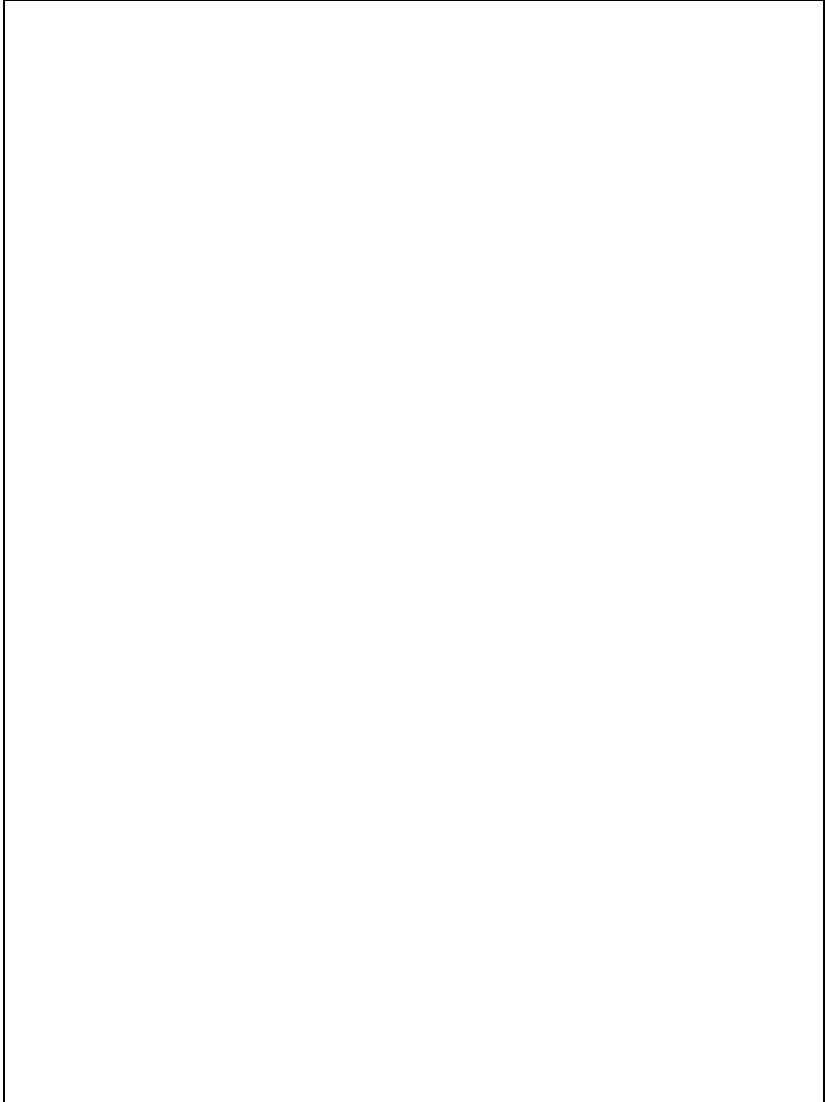
ⓧ Indicates smoke detector is optional if door is not provided between basement and recreation rooms.

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Your Floor Plan

Use the following guidelines when drawing your floor plan:

- Show all building levels.
- Show exits from each room (two exits per room are recommended).
- Show the location of all security system components.
- Show the locations of any fire extinguishers.



Glossary

access code

A four-digit number that allows you and others to control your system. The system uses one primary access code, which can control all operations in the system, and one secondary access code, which can control all operations except changing system settings, triggering a phone or sensor test, and gaining system access from a remote phone. It also can use up to 14 temporary arm/disarm access codes, each of which is limited to arming and disarming.

account number

A number that identifies your system to the central monitoring station.

alarm memory

The record of the most recent alarms that have occurred in your home.

alarm report

Alarm information sent over telephone lines from your system to the central monitoring station.

appliance module

A wireless device into which appliances, like coffeemakers or televisions, can be plugged to become controlled by your security system. Any appliance plugged into an appliance module can be turned on or off from a phone or touchpad using the individual device control command. Controlled appliances can also be turned off using the **all lights off** command. Controlled appliances turn off during an alarm.

arm/disarm access code

A code that allows you to turn protection on and off in the building but not to use other system options. For example, a house guest or repair person may use an arm/disarm access code. The system allows you to define up to 14 different arm/disarm access codes.

arming

Turning your system on. Arming to Level 2-Stay turns on protection to the outside areas while allowing you to walk around inside. An alarm will sound if anyone enters. Arming to Level 3-Away turns on all sensors, and an alarm will sound if anyone moves around inside or enters from the outside.

auto force arming

When you turn security protection on, the system will notify you if a door or window is open or there is other system trouble. If you do not correct the problem before leaving, your system will arm, but it will also report the situation to the central monitoring station.

auxiliary panic alarm

An alarm used for medical or other urgent situations. The auxiliary alarm may be set off by hand or when certain sensors are activated. For example, an auxiliary alarm may go off after a certain number of hours of inactivity if the system is set up that way. During an auxiliary alarm, lights come on steadily and interior sirens sound loud, on-off-on-off short tones. Exterior sirens are not activated.

battery supervision

The system's mechanism for detecting a low battery in wireless sensors. To determine if the battery is low, press the STATUS button and listen for the voice message announcing *Sensor nn low battery*. If this is not announced, the battery is OK.

battery test

A diagnostic feature that checks the condition of the control panel backup battery.

central monitoring station

Your system communicates with this station to report alarms or other problems. During an emergency, the central monitoring station will send police and fire personnel.

chime

A feature that gives you a warning when a door or window opens, an off-limits area is entered, or a device is turned on. For example, if a toddler is playing in a room with a sensor installed on the door, you can use this feature to warn you if the child has opened the door. This feature works only when security protection is turned off.

closing report

A report provided to the central monitoring station listing who armed your system and when. This feature is optional.

control panel

This is the electronic "brains" of your system. The control panel is a minicomputer in which the various options of your system are programmed. The control panel monitors and controls your entire security system.

delay

A delay gives you time to arm the system and leave your home

without setting off an alarm or to get in and disarm before sounding an alarm. Your system has three different entry delay times and three different exit delay times. Times are set by your installer. (*See also* entry delay and exit delay.)

delay door

The door designated for entry and exit when the security system is armed or disarmed. (*See also* delay, entry delay, and exit delay.)

entry delay

The period of time in which you must turn your system off after entering your home. The entry delay time is set by your installer. Your system has three different entry delay times available, for example, a gate delay can be set to last 4 minutes, a garage door delay set for 2 minutes, and an entry door delay set for 30 seconds. In this example, when you open the gate, the 4-minute timer starts. If you then open the garage door, your system starts counting down again from the time left from the gate delay or the 2 minutes from the garage delay, whichever time is shorter. If you then open the entry door, your system starts counting down from the time left from the garage delay or the 30 seconds from the entry delay, whichever time is shorter. If the delay period counts down to 0 an alarm will occur. (*See also* delay.)

exit delay

The period of time in which you must leave your home after turning security protection on. The exit delay time is set by your installer. Your system has three different exit delay times available, for example, the delay on the front door may be set to last 30 seconds, the garage door delay set for 2 minutes, and the gate delay set for 4 minutes. In this example, when you arm your system, you have 30 seconds to exit through the front door. You then have 2 minutes to exit the garage door, and 4 minutes to exit the gate. If the delay period counts down to 0, and a door is opened, an alarm will occur. (*See also* delay.)

exterior siren

A siren controlled by your system and located outside of the protected building. Exterior sirens are only used for police and fire alarms to alert neighbors and attract attention.

fire panic alarm

The fire panic alarm is a loud, repeating three long tones sounding from all interior and exterior sirens to alert neighbors and anyone in your home to a fire. The central monitoring station responds by calling the fire department. Activate the alarm from any touchpad or phone (if set up by your installer) in your home.

follower delay

After turning security protection on, motion detectors “follow” the entry delay with their own delay time, allowing you to pass in front of a motion detector without activating an alarm. Motion detectors immediately sound an alarm if no entry delay is in progress and you pass in front of it with security protection on.

full status

Use the full status command to check all recent activity in your home. The full status report gives all recent alarms, the current arming level, system problems such as power or battery trouble, and information about the energy saver feature, if installed.

hardwire

A sensor or device that is connected by wire to the system rather than with wireless technology.

Hardwire Interior Siren (HIS)

A siren used indoors to alert you of alarms and other activity in your home. A hardwire siren uses wires rather than wireless technology.

hardwire trouble

Your system alerts you with trouble beeps and touchpad display messages, if available, if hardwire sensors or devices such as hardwire touchpads have trouble communicating with the control panel. If there is a problem with a hardwire device, it is most likely a wiring problem and you need to call your security system installer.

instant alarm

Alarms, such as a fire alarm, that sound as soon as an armed sensor is tripped.

keychain touchpad

Miniature 2- or 4-button wireless touchpads that control basic system functions such as arming and disarming. No access code is required to control your system with a keychain touchpad. The built-in light blinks when the keychain touchpad transmits a signal.

lamp module

See X-10 Lamp Module.

local

Refers to activity and equipment that is located at your home. For example, the phone in your home where the control panel is installed is called the local phone. This term is also used to describe alarms that sound at your home but are not sent to the central monitoring station.

loop

Security system installers sometimes use this term interchangeably with the words zone or, more commonly, sensor.

monitoring service

See central monitoring station.

motion detector

See PIR (passive infrared motion sensor).

no activity

A feature that notifies the central station if your system doesn't detect activity in your home within a specified time period. The system sounds a 5-minute alarm notifying you that the time limit is approaching. If no one turns the alarm off, the your security system notifies the central station. This feature helps protect you if you are injured or sick and is especially helpful for a person who lives alone. (Your installer must turn this option on.)

no delay

An option that lets you turn security protection on without the exit delay. For example, if turning protection on to level 2 and no one is leaving the building, you may want to cancel the exit delay beeps. Press 4 immediately after arming to use this option. This also turns off the entry delay. If a front door is opened, for example, an alarm will sound immediately.

opening report

A report sent to the central monitoring station reporting who turned the system off and what procedures were used. This is an optional feature available from your installer.

panic buttons

Buttons on the touchpad with fire, police, and auxiliary symbols. When activated (press and hold for at least 2 full seconds), they send an immediate alarm to the central monitoring station. *See also* auxiliary, fire, and police panic alarms.

phone failure

If attempts by your system to report to your central monitoring station fail (perhaps there is a problem with the phone line) your system will notify you with a phone failure message.

phone communication test

A feature that tests the communication from the control panel to the central monitoring station.

PIR

Passive infrared motion sensor. A motion sensing device that detects the presence of an intruder by comparing the intruder's body temperature with the background temperature of the room.

police panic alarm

The police panic alarm is a loud, steady-on tone from interior and exterior sirens to scare off an intruder and alert neighbors to your trouble. The central monitoring station responds by calling the police. Activate the alarm from any touchpad or phone in your home.

primary access code

The standard access code that lets you operate all features of your system. The primary code is the only one that can change access codes.

protest beeps

A low-volume, two-tone rhythmic beeping that alerts you that the system cannot be armed unless further action is taken.

quick arm

Certain features can be controlled using the COMMAND button rather than your access code. We recommend that you do not use this method until you become proficient using your system. For a list of these shortcuts, see appendix B.

quiet mode

When this option is on, you may operate your system without sounding some of the usual beeps and messages. When entering commands from a touchpad with display (alphanumeric) or phone, few voice messages will be heard from the speakers or will only be heard over the phone. Arming level beeps will sound from interior speakers. Quiet mode does not affect touchpads that do not have a display (wireless).

RJ-31X Jack

The phone port connecting the control panel to phone equipment. This jack enables the control panel to take control of your phone line and report to the central monitoring station.

secondary access code

The four-digit access code that allows full use of the system except changing system settings, triggering a phone or sensor test, and gaining system access from a remote phone.

security level

The degree of protection set at the panel. The security levels are level 1 (off), level 2 (on with outside protection only), and level 3 (on with full protection inside and outside).

sensor

These are the devices such as smoke detectors, motion detectors, glass break detectors, and door/window sensors that detect a problem in your home and report it to the control panel. Security system installers sometimes use this term interchangeably with the words *zone* or *loop*.

sensor bypass

A feature that allows you to turn off protection in selected areas of your home, such as a window or door you wish to have open.

sensor number

A number used to identify a particular sensor in the system.

sensor test

A setting that allows you to test the operation of each sensor in the system.

siren time-out

Sirens will “time-out” (shut off) after sounding for a certain length of time. The default siren time-out is 4 minutes. This means that after an alarm has gone off, the sirens will stop ringing after 4 minutes. The alarm is still in progress after the sirens time-out, until you manually disarm your system. Your installer can set the siren time-out anywhere from 1 minute to 30 minutes.

smoke verification

Hardwire smoke detectors have a smoke verification feature that helps eliminate false smoke alarms. If a hardwire smoke detector is tripped, the detector’s power turns off and then quickly back on. If the alarm is activated again, your system calls the central monitoring station. Your installer must enable this feature.

supervisory failure

Sensors check in every hour by sending a signal to the control panel. If the panel doesn’t hear from a sensor you will be alerted to the trouble condition.

touchpad tamper

If your installer has enabled this feature, and your system detects more than 40 keys pressed without a recognized access code, a police siren sounds and a call is reported to the central monitoring station. This prevents a prowler from trying to find a valid access code by randomly pressing keys.

trip, tripped

To cause a sensor to go into a “nonnormal” state, resulting in a signal to the control panel. For example, if a door has a sensor attached to it, then when protection is on, opening the door trips the sensor, causing an alarm.

trouble

A warning that there is a problem in the system. The problem may be any of the following: a low sensor battery, a low control panel battery, a sensor that fails to respond, or a sensor that was tampered with. The system notifies you of a trouble condition by sounding six successive beeps, repeated every 60 seconds.

trouble beeps

Six successive beeps produced every 60 seconds by interior sirens and the control panel speaker when a trouble condition is detected by the control panel. Trouble beeps caused by a sensor that fails to respond or a low sensor battery are repeated every 4 hours if not corrected.

24-hour sensor

Sensors that monitor your home all the time. These sensors are active even when your system’s security protection is turned off (Level 1-Off). Some examples of 24-hour sensors include heat, freeze, smoke, and panic sensors.

wireless

Some of the devices in your system are “wireless.” They send and receive messages to and from the control panel using radio waves.

Wireless Interior Siren (WIS)

A siren that plugs into a standard wall outlet. It receives signals over the electrical wiring in your home.

wireless touchpad

A system component that allows you to operate your system within radio range of the control panel. This touchpad can be carried around with you to operate your system from various rooms.

X-10 Lamp Module

A wireless device into which lamps can be plugged to become controlled by your security system. Any lamp plugged into a lamp module can be turned on or off from a phone or touchpad. Different settings on the X-10 Lamp Module determine how the device plugged into it will react. The operation of these modules is supplementary to the alarm siren.

zone

Security system installers sometimes use this term interchangeably with the words *loop* or, more commonly, *sensor*.

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FCC Notices

FCC Part 15 Information to the User

Changes or modifications not expressly approved by Interactive Technologies, Inc. can void the user's authority to operate the equipment.

FCC Part 15 Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the affected equipment and the panel receiver to separate outlets, on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Part 68

This equipment complies with part 68 of the FCC Rules. Located on this equipment is a label that contains, among other information, the FCC registration number and the ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

The REN is used to determine the maximum number of devices that may be connected to your telephone line. In most areas, the sum of all device RENs should not exceed five (5.0).

If this equipment causes harm to the telephone network, the telephone company may temporarily disconnect your service. If possible, you will be notified in advance. When advance notice is not practical, you will be notified as soon as possible. You will also be advised of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper operation of your equipment. You will be given advanced notice in order to maintain uninterrupted service.

If you experience trouble with this equipment, please contact the company that installed the equipment for service and repair information. The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.



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WIRELESS

Security

Automation

Access Control

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