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Introduction

Congratulations!

Your purchase of this security system is a decision, which will afford you greater peace of mind for the many years of service the system is designed to provide. This is a revolutionary security system that allows you to use your TouchTone telephones to control your system and receive voice responses to your commands. It provides sophisticated intrusion detection without complex controls.

This manual consists of five sections:

SECTION 1 Introduces you to the components of your security system.

SECTION 2 Shows you how to turn the intrusion detection on and off, and explains what to do if you create a false alarm or experience a problem with your security system.

SECTION 3 Explains some additional advanced and optional features that you may wish to explore once you have mastered the day-to-day operations in Section 2.

SECTION 4 Contains a Glossary of Terms (please review them before trying to operate your system), important information regarding the limitations of your system.

SECTION 5 Contains reference information about your security system and its detection sensors, and what you should know about Federal Communications Commission Rules Part 15 and 68.

Special Note: Some of the features of this security system discussed in this manual are optional and are available from your security consultant.

This manual will help you learn the features and operation of your security system. We suggest that you take the time to read this manual before attempting to use your new security system. You will find this system is simple to use but very powerful in providing security for your premises.

Overview

At the heart of your system is a self-contained Control Panel (Panel). The Panel is the decision-making control center for your security system. The Panel (based on its internal programming) will respond to commands you enter and monitor alarm information from a variety of security devices (sensors) located throughout your premises. These sensors detect conditions such as smoke, intrusion, forced entry, etc. Many different types of sensors are available for use with the system.

The components of a typical security system are shown below. Each component will be discussed in detail in the reference section of this manual.

• AVAILABLE COMPONENTS

- The Control Panel (Panel)
- Your TouchTone Telephone
- Wireless Touchpads
- Hi-Tech Hardwire Touchpad with Alphanumeric Display
- Interior Sirens
- Exterior Siren/Speakers
- Energy Saver Module

• DETECTION SENSORS

- Door/Window Sensor
- Passive Infrared Motion Sensor*
- Smoke Sensors
- Shock Sensors*
- Glass Guard Sensors*
- Portable Panic Sensors
- Fire Pull Stations*
- Freeze Sensors
- Rate-of-Rise (heat) Sensors*

This system provides Grade A U.L. services.

** Not investigated by U.L.*

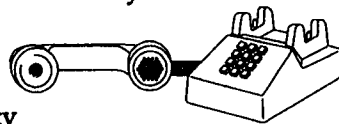
HOW IT WORKS

A security system is a collection of devices that monitors the security of your premises. As stated before, it consists of a Panel and a number of security sensing devices (sensors). This security system is an advanced design system that allows for the use of conventional security devices that are wired to the Panel, and wireless devices using sophisticated radio frequency transmitters. With wireless devices, there are no wires attaching these sensors to the main Panel. All alarm status information gathered by these sensors is transmitted to the Panel by radio waves.

When a wireless sensor is activated, the alarm information is coded by the sensor and transmitted to the Panel, where it is decoded. Based on the Panel's programming instructions, several things may happen. For instance, if the security system is "armed" and a monitored door is opened, a voice message announces the type of alarm and its sensor number, a siren sounds, and if the Automatic Light Control is installed, the lights flash to alert you or your neighbors to the alarm.

The alarm information is also reported to a security monitoring service, which alerts the police in your area with specific information about your premises. This information is extremely valuable to the police department when they arrive. Your security system can also alert fire or emergency personnel to a situation that may occur at your premises. Personal panic transmitters are also available for use in the event of an emergency.

A unique feature of the security system is its ability to use your premises telephones as command stations. Any TouchTone telephone in your premises can command the security system to arm or disarm, turn on lights, or summon help. It can even provide for an energy-saving thermostat control (with the appropriate hardware installed). A special code allows you to gain access to your system whether on the premises or away. This security system even allows you to operate its features during a telephone conversation.



PREVIEW

The next two sections show you how to use the features of the security system. The following symbols and notations are used.

- **✖, #, 1, 2, 3, 4** etc. represent the buttons on a TouchTone phone or Touchpad.
- The sequence **C, O, D, E** represents your 4-digit access code such as 1234.
- All commands work from an off-premises telephone, as well as an on-premises telephone or touchpad unless noted. On-premises telephones must be "off hook," that is the receiver lifted off the base, to operate the system.

The Basic Features

This section explains the features and terms you need to understand to use the basic features of your system.

- **Sounds**—A description of siren sounds, status sounds, and voice messages.
- **Short Status**—Announces the current arming level, identifies any open sensors, trouble conditions, or alarms in memory.
- **Detailed Status**—Announces all of the Short Status conditions, plus the status of the battery, AC power, whether the Energy Saver (if installed) is on or off, and the temperature (if the Energy Saver Module is installed).
- **“Arming Level 1 - Off”** —Turns system off. Stops or cancels most alarms.
- **“Arming Level 2 - Stay”** —Turns perimeter intrusion detection on.
- **“Arming Level 3 - Away”** —Turns all intrusion detection on.
- **Panic Alarms**—Police, fire, or auxiliary alarms that can be initiated from any telephone or touchpad.
- **Accidental Alarms**—The sirens and alarm report that is sent to the monitoring service when an alarm is accidentally tripped.
- **Automatic Test Features**—The automatic, built-in test routines that notify the monitoring service if the security system detects a problem.

SOUNDS

The security system has several distinct types of sounds to alert you to the status of your system. Some sounds are low volume and are used for command confirmation. Some siren sounds are high volume and are intended to alert you to a potentially dangerous situation. Below you will find a brief list of what some of these siren and status sounds are. Each feature, as described throughout this manual, indicates what type of siren or status sound you will hear when operating the system.

Siren Sounds

Alarm

- Loud steady siren—Fire alarm. (Takes precedence over burglar alarm.)
- Loud intermittent siren—INTRUSION or HELP alarm.
- Low-level siren—Auxiliary alarms.

Status

- Six low-volume beeps every minute—A trouble condition exists.
- One, two, or three low-volume beeps—The Panel is acknowledging that you have armed to level 1, 2, or 3.
- Long (one second) low-volume beep—The Panel is acknowledging your command.
- Pulsing beeps—The Panel is “protesting” your attempt to arm because a door or window is open.
- Two very short, low-volume beeps—The Chime feature is announcing a perimeter door or window opening.

Voice Messages*

Alarm

- *Fire, Fire Sensor 80*
- *Help, Help Sensor 81*
- *Intrusion, Intrusion Sensor nn*

Status

- (short) *Alarm system is off.*
- (detail) *Hello, alarm system is off, system battery is okay, AC power is okay, Energy Saver is off, temperature is 76 degrees, good-bye.*
- *Alarm system is on level two.*
- *Alarm system is on level three.*

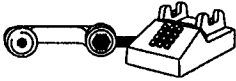
* There are many different voice messages. Specific voice messages for each feature are found with that feature in this manual.

SHORT STATUS ANNOUNCEMENT

When to Use:

- When you want to know how your system is currently armed. If the system's intrusion detection is off, the Short Status Command tells you if any doors or windows are open.

What to Do:



- Press *** + #** on any on-premises TouchTone phone (off hook)

OR



- Press STATUS on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- **The sirens will beep**

ONE BEEP	<u>Meaning</u>
TWO BEEPS	Arming level 1 (OFF)
THREE BEEPS	Arming level 2 (STAY)
	Arming level 3 (AWAY)
- If you are operating the system from a telephone, you hear the current arming level as follows:

Voice Messages

"Alarm system is off."

"Alarm system is on level two."

"Alarm system is on level three."

Meaning

Arming level 1 (OFF)

Arming level 2 (STAY)

Arming level 3 (AWAY)

- If you are operating the system from an Alphanumeric Touchpad, the display shows:

Display

1-OFF

2-STAY

3-AWAY

Meaning

Arming level 1 (OFF)

Arming level 2 (STAY)

Arming level 3 (AWAY)

Notes:

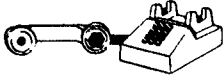
- The message for arming level 1, *"Alarm system is off,"* means that all level 2 and 3 intrusion detection is off. Fire sensors, auxiliary alarms from phones or touchpads, as well as special intrusion sensors, are always on unless bypassed.
- Intrusion sensors, which are in an "open" condition, are announced after the arming level is announced. For example: *"Alarm system is off, Sensor 23 open."*
- Any system trouble conditions are also announced.

DETAILED FULL STATUS ANNOUNCEMENT

When to Use:

- When you want to obtain the complete status of your security system.

What to Do:



- Press ***+CODEE+#+1** or ***+#+#** on any TouchTone phone (off hook)

OR



- Press **STATUS + STATUS** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- **The sirens will beep**

ONE BEEP	Meaning Arming level 1 (OFF)
TWO BEEPS	Arming level 2 (STAY)
THREE BEEPS	Arming level 3 (AWAY)
- You hear a complete detailed status of your system. (Some announcements are made only if that event has occurred.)

Voice Message

Meaning

"Sensor nn alarm memory"
"Sensor nn open"
"Alarm system is off."
"Alarm system is on level 2."
"Alarm system is on level 3."
"Energy Saver is on/off."
"Temperature is xx degrees."

"Sensor nn trouble"
"AC power is OK."
"AC power failure"

"System battery is OK."
"System battery failure"
"Sensor nn bypassed "
"Good-bye"

Indicates an alarm since last armed.
If any sensors are open.
If the system is in level 1, OFF.
If the system is in level 2, STAY.
If the system is in level 3, AWAY.
Energy Saver status (if installed).
Gives temperature if Energy Saver Module is installed.
If a sensor has a trouble condition.
Indicates status of the AC power.

Indicates status of the Panel and the backup battery.
If a sensor has been bypassed.
At the conclusion of the message.

ENTRY AND EXIT DELAYS

Entry Delay: Entry delays are the predetermined times you have to enter and disarm the system before an alarm occurs. Your security system features two types of entry delay beeps: 1) normal pulsing entry beeps and 2) rapid pulsing entry beeps.

CAUTION: Do not enter the premises if you hear sirens. Call for emergency help from a neighbor's phone.

What Will Happen:

- Under normal circumstances when you enter an entry delay door, you hear a continuous pulsing sequence of three low-volume beeps, if the system is armed to level 3. Or, you hear a two-beep sequence if the system is armed to level 2.
- If an alarm occurred while you were away, a faster two or three beep pulsing sequence sounds for the duration of the entry delay or until you disarm the system to level 1.

CAUTION: The faster pulsing beeps warn you that an alarm has occurred: Do not enter the premises. Call for emergency help from a neighbor's phone.

Exit Delay: The exit delay controls the amount of time you have to exit the premises after arming the system before an alarm occurs.

What Will Happen:

- The exit delay in level 2 sounds two beeps at the beginning and at the end of the delay time.
- In level 3, the exit delay sounds three beeps at the beginning and at the end of the delay time.

DISARMING YOUR SYSTEM TO LEVEL 1 (OFF)

When to Use:

- When you enter your premises and want to turn off all intrusion sensors off. All 24-hour sensors (Special and Fire/Panic) are always armed.

Note: You will hear normal or rapid entry delay beeps upon entering your premises. For more information, see "Entry and Exit Delays."

- When you want to stop or cancel an alarm.

What to Do:



- Press *** + C O D E + 1** on any TouchTone phone on-premises (off hook)

OR

- Press **C O D E + 1** on the Alphanumeric or Wireless Touchpad.



What Will Happen:

- The sirens signal the following:
ONE LONG BEEP - Indicating the system is in level 1 (off).
- If operating from a telephone, you hear, "Alarm system is off."
- The Alphanumeric display shows: 1-OFF.

Notes:

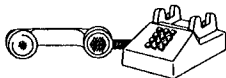
- The message for arming level 1, "Alarm system is off," means that all level 2 and 3 intrusion arming is off. All special 24-hour interior sensors are still armed. These sensors can only be turned off by bypassing them (see "Direct Bypassing of Sensors").
- Fire sensors, panic buttons, specials, and 24-hour environmental sensors remain on in level 1. Fire sensors cannot be bypassed.
- Trouble condition beeps sound only in level 1. The trouble beeps can be turned off for up to 10 hours by entering the code shown above.

ARMING YOUR SYSTEM TO LEVEL 2 (STAY)

When to Use:

- When you want perimeter intrusion sensors on and interior sensors off. For example, when you are going to remain in the building but want to have the doors and windows secured. Special and 24-hour Fire/Panic sensors remain on.

What to Do:



- Press ***+CODEE+2** on any TouchTone phone (off hook)

OR



- Press **CODEE+2** or COMMAND **2** on the Alphanumeric and Wireless Touchpad.

What Will Happen:

- The sirens signal one of the following:
EXIT DELAY BEEPS - At the beginning and at the end of the exit delay. For more information, see "Entry and Exit Delays."
PROTEST BEEPS - If a sensor is open (not secure).
- If operating from a telephone, you hear, "Alarm system is on level 2."
- The Alphanumeric display shows: 2-OK TO EXIT NOW, then 2-STAY.
- If anyone will be leaving the premises, exit immediately.
- If a perimeter intrusion sensor is open, your telephone beeps twice and announces, "Sensor nn is open." The Panel will not arm to level 2 until you disarm to level 1 and secure all openings. You must secure (close) all openings before rearming to level 2.

Notes:

- Before arming to level 2, enter the Short Status Command by pressing ***+#** (phone), or STATUS (touchpads) to see if any doors or windows are open.
- If you have an Alphanumeric Touchpad, see if the displayed arming level number is flashing. If so, perform a Short Status to see any trouble condition or which sensor is open.
- If you are unable to secure an open sensor, see "Bypass" in the next section and call your installation security consultant.
- In case of an accidental alarm, see "Stopping an Accidental Alarm."
- From this level, you can disarm to level 1 or arm to level 3.

ARMING YOUR SYSTEM TO LEVEL 3 (AWAY)

When to Use:

- When you want perimeter *and* interior intrusion sensors on. For example, when you are leaving and no one will be left on the premises.

What to Do:



- Press ***+CODE*+3** on any TouchTone phone (off hook)

OR



- Press **CODE*3** or COMMAND **3** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The sirens signal one of the following:
EXIT DELAY BEEPS—At the beginning and at the end of the exit delay. For more information, see "Entry and Exit Delays."
PROTEST BEEPS—If a sensor is open (not secure).
- If operating from a telephone, you hear, "Alarm system is on level 3."
- If operating from an Alphanumeric Touchpad, the display will read 3-AWAY OKAY TO EXIT.
- If a perimeter intrusion sensor is open, your telephone beeps twice and announces, "Sensor nn open." The Panel will not arm to level 3 until you disarm the system to level 1 and secure all openings. You must secure (close) all openings before rearming to level 3.
- If leaving, leave immediately.

Notes:

- Before arming to level 3, enter the Short Status Command by pressing ***+*** (phone), or STATUS (touchpads) to see if any doors or windows are open.
- If you have an Alphanumeric Touchpad, see if the displayed arming level number is flashing. If so, perform a Short Status Command to see which sensor is open.
- Enter the premises only through an entry delayed door. When you enter, the sirens beep three times repeatedly to remind you to disarm the system to turn the intrusion detection off.
- In case of an accidental alarm, see "Stopping an Accidental Alarm."
- Use the access code (not the command button) to change the arming level to level 1 or 2.

ACTIVATING THE POLICE PANIC ALARM

When to Use:

- In an emergency when you want to send a panic signal to the monitoring service and when you want to sound the sirens.

What to Do:



- Press *** * * * *** (at least 6 *****'s), or *** 88888** (at least five 8s) from any TouchTone phone

OR



- Press and hold the police shield button  for two full seconds on the Alphanumeric or Wireless Touchpad.

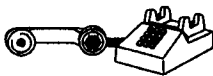
What Will Happen:

- The sirens make a loud beeping alarm sound.
- The exterior siren/speakers make a very loud siren sound and announce, "HELP, HELP... SENSOR 81." The exterior siren/speaker must be installed for this siren sound.
- The security system calls the monitoring service so the proper authorities can be dispatched.

Notes:

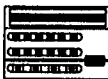
- Your security consultant can turn this feature off if it is not desired.
- This command does not work from off-premises phones.

How to Stop Sirens:



- Press *** + C O D E + 1** on telephone (off hook)

OR



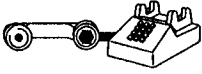
- Press **C O D E + 1** on the Alphanumeric or Wireless Touchpad.

ACTIVATING THE FIRE PANIC ALARM

When to Use:

- In an emergency when you want to send a fire signal to the monitoring service and when you want to sound the sirens.

What to Do:



- Press **☒** 77777 (at least five 7s) on any TouchTone phone (off hook)
OR



- Press and hold the FIRE button  for two full seconds on the Alphanumeric or Wireless Touchpad.

What Will Happen:

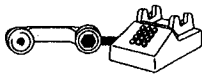
- The sirens make a loud constant alarm sound.
- The Exterior Siren/Speakers make a very loud siren sound and announce, "FIRE, FIRE, SENSOR 80." The exterior siren/speaker must be installed for this siren sound.
- The security system calls the monitoring service so the proper authorities can be dispatched.

Warning: This call cannot be stopped by disarming your system to level 1 as intrusion alarms can. If you accidentally cause a FIRE alarm, you must call the monitoring service and follow their particular procedure to prevent an emergency dispatch!

Notes:

- Your security consultant can turn this feature off if it is not desired.
- This command does not work from off-premises phones.

How to Stop Sirens:



- Press **☒** + **C O D E** + **1** on telephone (off hook)
OR



- Press **C O D E** + **1** on the Alphanumeric or Wireless Touchpad.

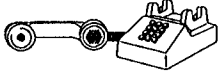
This code stops only the sirens and not the monitoring service communications.

ACTIVATING THE AUXILIARY PANIC ALARM

When to Use:

- In an emergency, when you want to send an auxiliary panic signal to the monitoring service and when you want to sound the sirens.

What to Do:



- Press ***99999** (at least five 9s) on any TouchTone phone (off hook)

OR



- Press and hold the Auxiliary button ***** for two full seconds on the Alphanumeric or Wireless Touchpads.

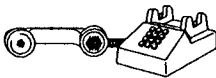
What Will Happen:

- The sirens make a loud beeping alarm sound.
- The interior speakers announce, "HELP, HELP... SENSOR 82."
- The interior sirens make loud siren sounds.
- The Communicator calls the monitoring service so the proper authorities can be dispatched.

Notes:

- Your security consultant can turn this feature off if it is not desired.
- This command does not work from off-premises phones.

How to Stop Sirens:



- Press ***CODE+1** on any TouchTone telephone (off hook)

OR



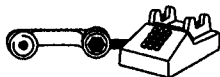
- Press **CODE+1** on the Alphanumeric or Wireless Touchpad.

STOPPING AN ACCIDENTAL ALARM

When to Use:

- When you have accidentally caused an intrusion alarm and wish to stop it.

What to Do:



- Press ***+CODE+1** on any TouchTone phone (off hook)

OR



- Press **C O D E + 1** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- All alarm sounds stop.
- The sirens signal the following:
ONE BEEP - Indicating the system is in level 1 - off.
- If you are operating from a telephone, you hear one of these two messages:

Voice Messages

Meaning

"Alarm system is off."

If you disarmed the system and the security system called in the alarm to the monitoring service.

*"Alarm system is off,
alarm bypassed."*

If you disarmed the system before a monitoring service call was completed.

Notes:

- If the accidental alarm was an intrusion alarm and you stopped it within about 10 seconds, an alarm signal is not sent to the monitoring service.
- Fire and duress alarms are not automatically cancelled! The siren sounds stop, but the monitoring service call still goes through. You should always call the monitoring service as soon as possible and follow their procedure to cancel these alarms.

Because monitoring service procedures vary from one area to another, be sure to follow the procedure that your security consultant has shown you to assure that authorities are not dispatched.

AUTOMATIC TEST FEATURES

Your security system has several automatic test routines built-in. If the security system discovers a problem, it notifies you. Call your security consultant to discuss what to do.

What Will Happen:

- If the security system discovers a problem, the interior sirens beep rapidly, six times every minute. As soon as you pick up the telephone, the system immediately announces the problem and releases the telephone to your control. You are then be able to review the message. Perform a short status by pressing **[*] [#]**. The six beeps may occur again 10 hours later if the problem is not corrected. The arming level indicator on the Alphanumeric Touchpad blinks until the trouble is corrected.
- If your system is monitored, the monitoring service is notified of the problem.

Voice Messages

Meaning

"AC power failure"

Your system may have accidentally been unplugged or disconnected from AC power.

"System battery failure"

The emergency standby battery has failed and should be recharged or replaced.

"Sensor nn failure"

The particular sensor is not working.

"Sensor nn trouble"

A sensor has an internal problem such as a low battery or the cover is off. It may still be working.

"Fire sensor nn trouble"

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



"83 phone failure"

Your telephone service is not working, or the security system has been disconnected from the phone line.

Additional Features

PREVIEW

The following is a brief description of the system features described in this section:

- **Direct Bypass**—Turning off a special 24-hour intrusion sensor or any other intrusion sensor.
- **Instant**—Changing delayed intrusion sensors to instant after arming your system.
- **Chime**—Turning the Chime feature on and off.
- **Automatic Light Control**—Turning controlled lights on or off from a telephone or touchpad. This control feature “toggles” the lights on or off.
- **Alarm Memory**—Listening to the Alarm Memory messages stored in the security system.
- **Testing the Monitoring Service Communications**—This test can be performed at any time to test alarm communications to the monitoring service.
- **Testing Sensors**—Performing the Sensor Test for each sensor in your system.
- **Energy Saver On or Off**—Turning the Energy Saver on or off.
- **Energy Saver Temperatures**—Setting the Energy Saver low- or high-temperature set point.
- **Disable Local Operation**—Temporarily turning off the security system's response to the  and  buttons on your phone so that you can use these buttons for other purposes such as, electronic banking, accessing remote answering machines, etc.
- **Off-Premises Access**—Controlling your system from an off-premises phone.
- **Duress Code**—Entering this special code generates an emergency silent alarm while disarming or arming your system.
- **Changing Your Primary Access Code**—When you want to change your primary access code.
- **Changing Your Temporary Access Code**—When you want to change your temporary access code.

DIRECT BYPASSING OF SENSORS

When to Use:

- When you want to turn off an intrusion sensor.
- When you have a special intrusion sensor (24-hour) that is always on. (This is the only way to open these sensors without creating an alarm.)

What to Do:



1. Arm the system to the desired level (if it is different than the current level).
2. Press ***+C O D E+6+nn** from any TouchTone phone (off hook)

OR



- Press **C O D E+ BYPASS + nn** on the Alphanumeric or Wireless Touchpad.
nn = the sensor number to bypass.

What Will Happen:

- The sirens emit one short BEEP.
- Your telephone announces "*Sensor nn bypassed.*"
- The Alphanumeric Touchpad display shows the arming level indicator flashing.

If you enter an incorrect sensor number, the Panel announces "*Invalid.*"
If this happens, repeat steps 1 and 2.

Notes:

- The bypassed sensor(s) un-bypass when the next arming level change is made.
- Repeat the steps 1 and 2 to bypass additional sensors.
- Fire and smoke sensors cannot be bypassed in this manner.
- Always use 2 digits to describe a sensor, such as Q7, 23, Q1.
- To find out what sensors are bypassed, perform a short status from any touchpad or phone. The system announces "*Alarm system is on ____ (current arming level). Sensor nn is bypassed.*"
- On the Alphanumeric Touchpad, after entering **C O D E+ BYPASS**, the display shows **BYPASS Sn _ _**. If an incorrect sensor number is entered, the display shows **BYPASS Sn FAIL**.

CHANGING DELAYED INTRUSION SENSORS TO INSTANT

- When to Use:**
- When you want maximum security.
 - When no entry delay times are needed. You want an instant alarm if an entry door is opened.

- What to Do:**
- When arming your system to level 2 or 3, add **4** to the end of the command.

Example: **⊗**+**C O D E** + **2**+**4**, level 2 instant or
⊗+**C O D E** + **3**+**4**, level 3 instant.

- What Will Happen:**
- Interior sirens sound 2 or 3 beeps indicating the arming level. In addition, when you press **4**, you hear "No Delay" indicating the system is armed with no delay.
 - If operating from a telephone, the system announces, "Alarm system is on level __ no delay."
 - If operating from an Alphanumeric Touchpad, the system displays 2-STAY NO DELAY.

- Notes:**
- If a door or window is opened after the system is armed with no delay, the sirens sound immediately.
 - Any change in the arming level sets the intrusion sensors back to their normal delayed status for any subsequent arming.

CHIME FEATURE

When to Use:

- Turn the Chime feature on if you want the sirens to beep every time a monitored perimeter door or window is opened while the system is off (level 1).

What to Do:



- Press ***+CODE+7** from any TouchTone telephone (off hook)

OR



- Press **CODE+7** or **COMMAND 7** on the Alphanumeric or Wireless Touchpad.
- The Chime feature, like several other features, "toggles" or changes from off to on, or on to off, when you enter its code.

What Will Happen:

- The sirens sound one short BEEP. The Wireless Interior Siren (if installed) beeps twice.
- Your telephone announces, "On/off."
- The Alphanumeric Touchpad displays CHIME ON, after the arming level display, when the chime is turned on.
- The Alphanumeric Touchpad removes CHIME ON when the chime is turned off.

Notes:

- If two doors or windows open within 3 seconds of each other, only one Chime may be heard.

AUTOMATIC LIGHT CONTROL

The ability of the security system to automatically turn on selected lights is an option your security consultant can install. The features and benefits of this option are:

- Turns lights on during entry and exit delay periods – lights your way while entering or exiting for 5 minutes.
- Flashes lights during an intrusion – provides a deterrent to intruders and calls attention to an emergency.
- Turns lights on steady during a fire – helps light your way out of a building.
- Warns you that an alarm occurred when you arrive at the premises – lights caused by an alarm stay on until the system is reset.

In addition, you can program the lights to come on any time you wish, such as if you hear a suspicious sound at night.

What to Do:



- Press ***+CODE+0** from any TouchTone phone (off hook)

OR



- Press **CODE+0** or **COMMAND 0** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- Controlled lights come on until turned off.
- The system announces, "On/off" when the lights' status is changed.

Notes:

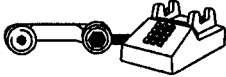
- Controlled lights always come on during the exit and entry delay periods. In addition, they come on for all audible alarms and stay on until the alarm is turned off.
- The above commands toggle the lights on or off. For example, if the lights are on, they will be turned off; or if the lights are off, they will be turned on.

ALARM MEMORY

When to Use:

- After an alarm has occurred, you can check alarm memory to determine what sensors caused the alarm during the last arming period.

What to Do:



- Press ***+CODE*+#+5** from any TouchTone phone (off hook)

OR



- Press **CODE+STATUS+5** or **COMMAND STATUS** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- Your telephone announces all alarms in the memory. Example, *"Sensor nn alarm memory."*
- The Alphanumeric Touchpad displays the alarms. Example *"01 memory ... 81 memory police,"* etc.
- If there are alarms or trouble conditions in the memory, the system announces them in order of occurrence.

Notes:

- Alarm memory can be accessed in any arming level.
- If no alarms are in the memory, the system announces, *"Alarm memory is OK."*

TESTING THE MONITORING SERVICE COMMUNICATIONS

When to Use:

- When you wish to test the monitoring service's communications.
- We recommend that you test your communicator at least once each week; or more often if you suspect a problem.

What to Do:



- Press **X**+**C****O****D****E**+**B** from any TouchTone phone (off hook)

OR



- Press **C****O****D****E**+**B** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- The interior sirens immediately sound one long BEEP.
- If operating from a telephone, you hear, "Phone test is on." You may hang up.
- On the Alphanumeric Touchpad, the arming level number blinks. It stops blinking upon completion of the test. The Panel returns to level 1 when test is completed.

Notes:

- This is a test of the monitoring service communicator only. See the next page for more information on how to test sensors.
- If the test fails, you hear a series of rapid beeps from the sirens every minute, until you pick up the phone; you hear "Phone test failure." Call your security consultant for assistance.
- Some monitoring services may require that you call them in advance of any test. Many services acknowledge your test with a telephone call. Ask your security consultant about this.
- You can also test the communications from an off-premises phone. You might want to do this if you are away for an extended period. Ask your security consultant for instructions.

TESTING SENSORS

When to Use:

- When you wish to test the various detection sensors in your system.
- Although your system has many built-in self-test features, we recommend testing your system at least once each week; more often if you suspect a problem.

What to Do:



1. Be sure your system is off (level 1).
2. Press ***+CODE+9** from any TouchTone phone (off hook)

OR



- Press **CODE+9** on the Alphanumeric or Wireless Touchpad.
3. Walk around the premises opening monitored doors and windows and walk in front of motion sensors.

Note: Wireless motion sensors need a 3-minute rest between activations. If the motion sensor does not respond, avoid the motion sensor's area of coverage for 3 minutes before testing again.
4. While still in the test mode, test the panic buttons on each touchpad. Press the alarm buttons, one at a time, for a full 2 seconds on each touchpad.

What Will Happen:

- The sirens emit a short BEEP each time you test a sensor.
- Your telephone announces: "Sensor test is on," once a minute.
- Your telephone announces the sensor number and type as each sensor is tested. For example, "Sensor one OK."

Notes:

- You may obtain an announcement of the sensor numbers which have not yet been tested (from your telephone) by pressing **#**; (from an Alphanumeric or Wireless Touchpad) by pressing STATUS.
- When all sensors have been tested, the system announces: "Sensor test is on ... All sensors test OK."
- To end testing, disarm the Panel to level 1.
- After 15 minutes, the Panel will automatically disarm to level 1.
- DO NOT use this command from off-premises.

TURNING THE ENERGY SAVER FEATURE ON OR OFF

When to Use:

- The system (with the appropriate hardware installed) can add additional control over your premises thermostat. This feature provides for a thermostat override. When you wish to have the Energy Saver override your regular thermostat setting at night or while you are away, toggle the Energy Saver feature on. The Energy Saver Module controls the temperature according to the low and high settings you have set in the system (see "Setting Energy Saver Temperatures").

What to Do:



- Don't change the setting of your regular thermostat. Leave it set to your normal comfort level.
- Press ***+CODE+5** from any TouchTone phone (off hook)

OR



- Press **CODE+5** or **COMMAND + 5** on the Alphanumeric or Wireless Touchpad.

What Will Happen:

- You hear a single BEEP from the interior sirens after **5**.
- If you are operating the system from a telephone, you hear "Energy Saver is on/off."
- The Alphanumeric Touchpad displays ENERGY SAVER IS ON or ENERGY SAVER IS OFF.

Notes:

- The Energy Saver commands, discussed above, toggle the feature on or off each time they are used. If you are in doubt as to the current off/on status of the Energy Saver, you may wish to use the full status command. Press ***+##+##** from any TouchTone phone to determine the status before proceeding.
- If you accidentally turn the feature on or off because you were not aware of its current status, reenter the command and toggle it to the other state.

Application Note:

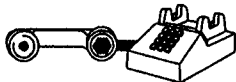
- The following example illustrates how the Energy Saver feature might be used in the winter. When you leave for work, you can set the Energy Saver on, to override your normal premises temperature setting of 70° to a new setting of 60°. This will keep your premises at 60° all day. Before leaving work, call the security system and turn the Energy Saver off. This returns the temperature in your premises to 70° before you arrive.

SETTING ENERGY SAVER TEMPERATURES

When to Use:

- When you wish to change the high or low thermostat control temperature settings within a 45°F to 90°F range.

What to Do:



- To set the low-temperature limit:

Press ***+CODE+#+3** from any TouchTone phone

OR

Press **CODE+STATUS+3** on the Wireless Touchpad.

Immediately enter your desired 2-digit setting such as

5+5 for 55°F.

- To set the high-temperature limit:

Press ***+CODE+#+4** from any TouchTone phone

OR

Press **CODE+STATUS+4** on the Wireless Touchpad.

Immediately enter your desired 2-digit setting such as

9+0 for 90°F.

- On the Alphanumeric Touchpad, press **CODE+STATUS+3**, the display shows **LOW TEMP __** then flashes and displays **Low Temp (new temp)**. When set, the display reads **LOW TEMP OK**. The same holds true for High Temp setting. Set it in the same way with the command **CODE+STATUS+4**.

What Will Happen:

- Your internal sirens beep and the telephone announces “*Energy Saver low (high) temperature is xx degrees.*”

Notes:

- The minimum low set point is 40°F and the maximum high set point is 90°F.
- The factory settings are 90°F high and 50°F low.
- DO NOT set high and low temperatures closer than 14°F, such as 68°F (low) to 72°F (high).

In addition to temperature control, the Energy Saver has a built-in freeze detector. A Freeze Alarm report is sent to the monitoring service if the temperature falls below 42°F in the area where the Energy Saver is mounted. Your security consultant can adjust this temperature if you wish.

DISABLE LOCAL OPERATION

When to Use:

- When you must make calls that require using the ***X** or **#** buttons, such as remote banking transactions. Both of these activities may confuse your security system unless you disable its response to these buttons.
- When you wish to access a second off-premises security system, such as in a second premises or in your business.

Note:

The system must be in level 1.

What to Do:



- Press ***X** + **C O D E** + **#** + **6** from any TouchTone phone (off hook).

What Will Happen:

- Your phone has a dial tone present immediately. You can now make your call without interference from the security system.
- The security system returns to its normal status as soon as the phone is hung up.

Note:

- Normally during a phone conversation, you can access the security system at any time; but after entering the above command, the TouchTone command capabilities are disabled.

OFF-PREMISES ACCESS

When to Use:

- Whenever you wish to control your security system from an off-premises TouchTone telephone.
- If you forget to arm your system, you can call from a remote phone and arm it.
- If you are away and someone needs to gain entry to your premises or business, you can call and disarm the system for them.
- If you are on vacation and want to check to see if everything is OK, you can call your premises and request a detailed status.
- If you are on the way to your second premises and you want to call ahead and turn off the Energy Saver feature, so it will be warm (or cool) when you arrive.
- To toggle lights on or off.

What to Do:



THE 12-RING METHOD. Use if you **DO NOT** have an answering machine connected to the same line as the security system.

Note:

You must use a TouchTone telephone.

1. Dial your premises or business. If you have more than one phone line, call the line that the system is connected to. The system will normally answer after about 12 rings.

2. When the security system answers, you hear:
"System hello" and 4 beeps.

3. After the system says "System hello," enter your access code, followed by your command.

If you want a detailed status enter: **☒ + C O D E + # + 1**

To disarm your system, enter: **☒ + C O D E + 1**

To arm to level 3 Away, enter: **☒ + C O D E + 3**

Or, enter any other command, just as if you were on the premises.

4. When done, hang up. Or, if you pause longer than 30 seconds between commands, the system says "System good-bye" and hangs up. If this happens and you are not finished, start over and call the security system again.

OFF-PREMISES ACCESS (Continued)

What to Do: THE RING/PAUSE/RING METHOD. Use if you DO have an answering machine connected to the same line as the security system.

1. Call the phone line the system is connected to; let the phone ring twice; and hang up.
2. Wait from 10 seconds (minimum) to 40 seconds (maximum). Call a second time. This time the system answers by the second ring.
3. Follow steps 3 and 4 on the previous page.

What Will Happen:

- The system responds to your commands with actions and voice messages the same as it does when you use an on-premises phone.

Notes:

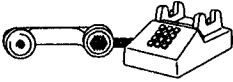
- The system must be disarmed (level 1) before many functions, such as temperature changes, will work. Be sure to rearm.
- Toll Saver Feature. If you are using the 12-ring method for accessing your system, you can take advantage of the Toll Saver feature. To find out if everything is OK, without incurring a long distance charge, do the following:
 1. Call your premises or business and let the phone ring 9 times.
 2. Hang up if the system does not answer by the ninth ring.
 3. If there had been an alarm during the current arming period, the security system would have answered at about the eighth ring. The security system also answer after about 8 rings if there is a trouble condition, such as a low battery, sensor trouble, etc. If everything is OK, the system doesn't answer until about the twelfth ring.

USING THE DURESS CODE

When to Use:

- When you want to generate a silent alarm during the arm/disarm procedure at your touchpad.
(This alarm should only be used in an emergency.)
- The first two digits of your duress code are the same as the first two digits of your regular access code. The last two digits are different and are set by your security consultant.

What to Do:



- Press ***C O N N** + (arming level) from any TouchTone phone (off hook)

OR



- Press **C O N N** + (arming level) on the Alphanumeric or Wireless Touchpad.

Note:

The last two digits of this code are different from your standard access code. These numbers can be programmed for you by the installing security consultant, if requested.

What Will Happen:

- The sirens signal the current status of your system.
- The system sends an alarm to the monitoring service in a silent manner. This alerts the monitoring personnel to the potentially dangerous situation you may be in.

Special Note:

An arming level does not have to be specified after the code. The security system makes the monitoring service call immediately after the last digit of the code is entered.

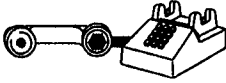
Warning: Duress code alarms cannot be cancelled. Be sure to never confuse your duress code with your regular access code.

CHANGING YOUR PRIMARY ACCESS CODE

When to Use:

- When you feel your code is known by someone you do not want to have access.

What to Do:



1. Press ***+C O D E+#+8** from any TouchTone phone (off hook), the system beeps the internal sirens once.
2. Immediately enter your new access code. The system announces your new code "N N N N OK."

CAUTION: Avoid using the number 6 in your primary and temporary access codes. Since the system uses 6 to bypass sensors, it could interfere with normal system arming when detected as part of your access code.

3. Listen carefully to the code announcement to be sure it is correct.

Example: your present access code is 1234 and you want to change it to 5432. Press: ***+1 2 3 4+#+8+5 4 3 2**.



For the Alphanumeric Touchpad:

1. Press **C O D E + STATUS + 8**. The display will read ACCESS CODE _ _ _ _.
2. Enter your new code. The touchpad displays: ACCESS CODE OK.

What Will Happen:

- The sirens BEEP an acknowledgment.
- Your telephone announces "5432 OK."

Notes:

- Don't forget your code. If you do forget, a service call may be necessary.
- We do not recommend using 1234 or 1111 as the access code.
- **IMPORTANT!** 7777, 8888, and 9999 cannot be used as access codes. These are panic codes in the security system and cannot be changed.

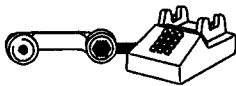
CHANGING YOUR TEMPORARY ACCESS CODE

When to Use:

- When you need to give a temporary access code to a neighbor or service person.

NOTE: Always begin this step by entering your primary access code, then your new temporary access code.

What to Do:



1. Press ***+CODE#+?** (your primary access code) from any TouchTone phone (off hook).
The system beeps the internal sirens once.
 2. Immediately enter your new temporary access code. The system announces your new code "NNNNOK," then the sirens beep once.
 - 3 Listen carefully to the code announcement to be sure it is correct.
- Example: your primary access code is 1234 and you want to change your temporary access code to 5432. Press:
***+1234#+?+5432.**



For Alphanumeric Touchpads:

1. Press **CODE + STATUS + ?** (your primary access code).
The display reads TEMP CODE _ _ _ _.
2. Enter your new temporary access code code. The touchpad displays TEMP CODE OK.

What Will Happen:

- The sirens beeps an acknowledgment.
- Your telephone announces "5432 OK."

Notes:

- Don't forget your code. If you do forget, a service call may be necessary.
- We do not recommend using 1234 or 1111 as the access code.
- **IMPORTANT!** 7777, 8888, and 9999 cannot be used as access codes. These are panic codes in the security system and cannot be changed.
- This command cannot be used to change the primary access code.
- The temporary access code cannot DIRECT BYPASS sensors.

Things You Should Know

This section has a Glossary of Terms, Limitations of Your System, and FCC Information.

Glossary of Terms

, #.** One of these buttons (normally **), found on your TouchTone phones, always precedes any command you issue to the system. If you don't press ***** or **#** first, you can use your phone normally and the system ignores what you dial.

C O D E. This represents a unique sequence of four numbers that you can select to be your personal code used to issue commands to your security system. Your security consultant programs your access code into the system. You, or others who are authorized, will need to use this code as part of most commands you give to your security system, such as turning the intrusion detection on or off.

Alarms in Memory. The security system includes an alarm memory feature. This allows you to perform an inquiry on what sensors have generated the most recent alarm signal. Alarm memory can be access in any arming level.

Arming Levels. The system is always in one of three arming levels: 1, 2, or 3. The difference between them is the "state of readiness" that the intrusion sensors are in:

- **Level 1 (OFF).** All intrusion sensors are off except for special sensors monitoring wall safes, jewelry boxes, etc. Panic buttons, fire sensors, and environmental sensors are on in level 1 and in all other levels. Level 1 is also selected to stop or cancel any alarm.
- **Level 2 (STAY).** All perimeter intrusion sensors are on, but interior sensors are not, permitting people in the building freedom to move about freely without setting off an alarm.
- **Level 3 (AWAY).** All perimeter and interior intrusion sensors are on, as well as fire and other sensors. This level is usually used when the occupants are away from the building.

Automatic Test Features. Your security system is constantly testing itself, the AC power, the phone line and its communications link to its sensors. If a problem occurs, the unit alerts you by one of several ways called the "Trouble Signal."

Backup Battery. Your security system contains a backup battery that is capable of sustaining your security system in the event of an AC power failure.

Bypass. This feature allows you to omit a particular sensor (or sensors) from the group that would normally be active in the arming level you have selected.

Chime. If you have this feature selected and you have all intrusion detection off (level 1), two beeps sound when any monitored perimeter door or window is opened.

COMMAND Key. The COMMAND key, on the Alphanumeric and Wireless Touchpads, provides a quick method for arming the system. You can also dim your panel by pressing this key.

Delayed Entry/Exit. The time you have to enter the premises and disarm the system before an alarm occurs. The delay feature also controls the amount of time you have to exit the premises after arming the system before an alarm occurs.

Detailed Full Status Announcement. With your access code, you can get a detailed status announcement using a local or remote TouchTone phone. The detailed full status announcement includes the condition of the AC power and even the temperature in the building, if the optional Energy Saver Module is installed.

Duress Code. The duress code is a special four-digit code which, when used, secretly and silently notifies the monitoring service of an emergency.

Energy Saver Feature. If you have the Energy Saver hardware installed, you have control over your premises thermostat. This feature is used to save energy by lowering your furnace (or raising your air-conditioning) temperature setting while you are away or in bed. This feature is set by a command that toggles on or off.

Light Control. If you have this optional feature, selected lights come on in the event of any alarm and stay on until you reset the system. In addition, the lights come on during the exit or entry delay times.

Monitoring Service. A 24-hour alarm monitoring facility staffed with trained personnel who receive alarm signals and dispatch proper authorities. Your system can report to a monitoring service, using your regular telephone line.

Panic Alarm. There are three Panic alarms on the security system. Fire, Police, and Auxiliary alarms are available on all TouchTone telephones and the Alphanumeric Touchpad. A police alarm is available on the Wireless Touchpad. The system notifies the monitoring service and the sirens sound.

Phone Test. This is a test of the Communication feature which reports alarm and trouble events if your system is monitored by a monitoring service. You can test this function at any time by entering a special code on a TouchTone phone.

Protest Beeps. Protest beeps are heard throughout your premises if you attempt to arm your system with a door or window open. When you hear protest beeps, you must close the door or window, then rearm the system. The protest beeps are repeated in sequence of six beeps: two short beeps - 3 times.

Sensor Test. This test is used to verify the operation of sensors used in your system.

Short Status Announcement. Through an on-premises TouchTone phone or any wired touchpad, you can get system information telling you the current arming level and listing any sensors that are open. If anything is wrong with your system, you'll be told that too.

Special Sensors. Special sensors are 24-hour sensors used to monitor valuables that might be in a jewelry case, gun cabinet, storage locker, etc. These sensors are on 24 hours a day and must be bypassed when access to your valuables is needed.

Status Beeps. Sounds that are made by the sirens indicating arming level changes, system trouble, etc.

Trouble Condition. When the system detects a problem with some part of your system, a series of six rapid beeps are heard from the sirens every minute until you pick up a phone and receive a voice announcement detailing the problem. If your system is monitored, the monitoring service is also notified. (Trouble signals may be delayed up to 10 hours.) When a trouble condition is annunciated, contact your installing security consultant's service department.

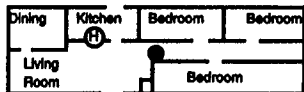
FIRE SAFETY

1. Draw a floor plan of your premises in the space provided. Make sure to show the exits from each room (two exits per room are recommended).
2. Hold a discussion on household emergency procedures which includes the following:
 - A. Status of bedroom doors.
 - B. Familiarity with alarm system.
 - C. Testing doors during a fire and the use of alternate escape routes if too hot to touch.
 - D. Crawling and holding breath.
 - E. Escape fast! Do Not stop to pack!
 - F. Meet at a designated outdoor location.
 - G. Emphasize that no one is to return to a burning house.
 - H. Notify fire department from a neighbor's phone.
3. Periodic rehearsals should be conducted.
4. If you return premises and hear the siren, do not enter the house. Call for the fire or police department based on the type of alarm condition provided.

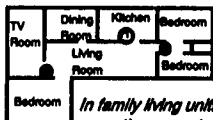
NOTE: Ceiling mounted smoke detectors should be located in the center of the room or hall, or not less than 4 inches from any wall. When the detector is mounted on a wall, the top of the detector should be 4 to 12 inches from the ceiling

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.

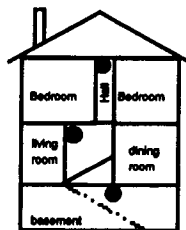
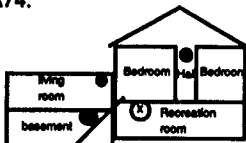
NOTE: Additional information on household fire warning is available at nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. Request Standard No. NFPA74.



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, a smoke detector should be located at each area.



A smoke detector should be located on each level.

● Required smoke detector

⊕ Indicates smoke detector is optional if door is not provided between ceiling and recreation rooms.

⊙ Heat Detector

SENSOR LOCATION CHART

Sensor Number

Location

01

02

03

04

05

06

07

08

09

10

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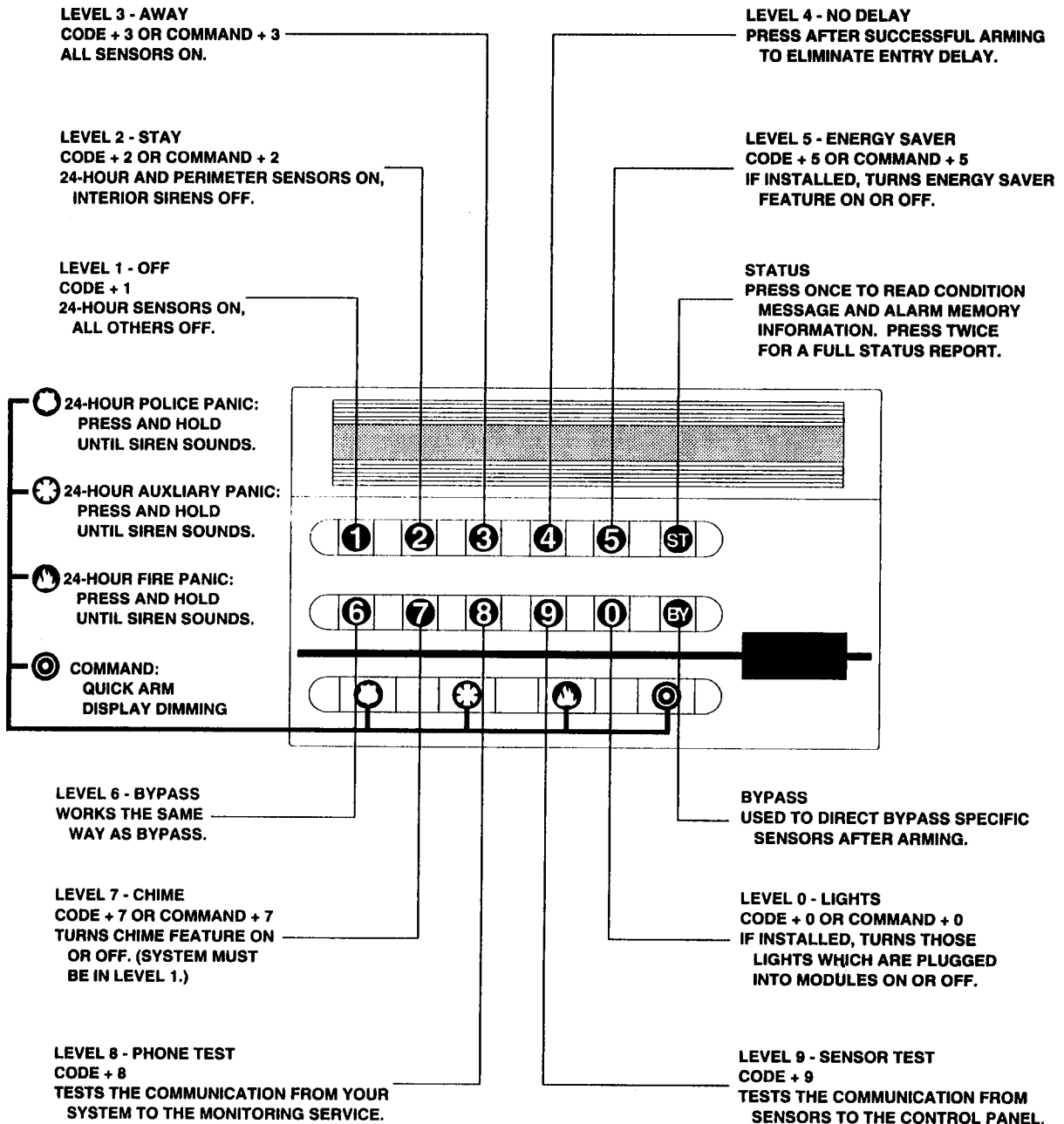
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COMMENTS:

COMMAND SUMMARY CHART

<u>COMMAND</u>	<u>TOUCHPAD</u>	<u>PHONE</u>
Short Status	STATUS	* #
Detailed Status	STATUS STATUS	*** or * CODE # 1
Alarm Memory	CODE STATUS 5	* CODE # 5
	COMMAND STATUS	
Police Panic	Police Button	***** or * 8 8 8 8 8
Fire Panic	Fire Button	* 7 7 7 7 7
Auxiliary Panic	Auxiliary Button	* 9 9 9 9 9
Disarm/Alarm Cancel	CODE 1	* CODE 1
Stay	CODE 2	* CODE 2
Away	CODE 3	* CODE 3
Bypass	CODE (2 or 3) 6	* CODE (2 or 3) 6
Instant	CODE (2 or 3) 4	* CODE (2 or 3) 4
Direct bypass	CODE 6 nn	* CODE 6 nn
Chime	CODE 7 or COMMAND 7	* CODE 7
Light Control	CODE 0 or COMMAND 0	* CODE 0
Energy Saver		
ON/OFF	CODE 5 or COMMAND 5	* CODE 5
Low temp set	CODE STATUS 3	* CODE # 3
High temp set	CODE STATUS 4	* CODE # 4
*/# Disable		* CODE # 6
Changing Access Codes		
Primary Code	CODE STATUS 8 NEW CODE	* CODE # 8 NEW CODE
Temporary Code	CODE STATUS 7 NEW CODE	* CODE # 7 NEW CODE
Central Station Test	CODE 8	* CODE 8
Sensor Test	CODE 9	* CODE 9

QUICK REFERENCE



HARDWIRE TOUCHPAD LIGHTING

Display Dimming

Press and hold the COMMAND button and the display dims from 100% to 75%, 50%, 25% or blackout. As long as the COMMAND button is pressed the dim levels continue to cycle. Once you see the desired level, quickly release the COMMAND button.

Once a dim level is set, pressing any button illuminates the display to full brightness. After 15 seconds of no touchpad activity, the display returns to the set dimmed level.

During an alarm condition, the display automatically goes to full brightness. Once the system is disarmed and there is 15 seconds of no touchpad activity, the display returns to the set dimmed level.

The Entry Delay time and a level 9 Sensor Test also forces the display to full brightness. After disarming the system and no touchpad activity for 15 seconds, the display returns to the set dimmed level.

Backlit Buttons

The buttons on the touchpad are backlit with a soft red light for easy night viewing. After 15 seconds of no touchpad activity, this lighting goes out. Press any key to illuminate the buttons.

OTHER DISPLAY MESSAGES

The following list of display messages may appear to alert you of certain conditions. Messages listed with an asterisk (*) are optional features and may not pertain to your system. Check with your installing security consultant about the configuration of your system regarding these messages.

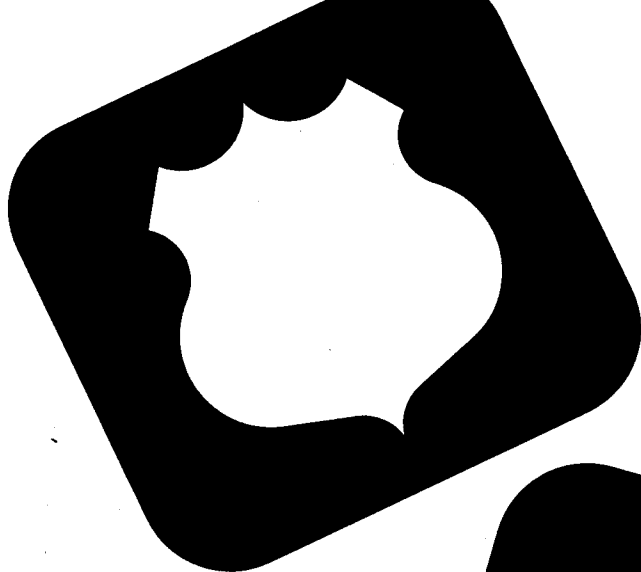
- | | |
|--------------------|---------------------------|
| 00 BUDDY REPORT* | 87 FORCED ARMED* |
| 01 SENSOR IN RANGE | 90 AC FAILURE* |
| 77 TOUCHPAD TAMPER | 91 LOW PANEL BATTERY |
| 80 FIRE ALARM | 92 PANEL TAMPER* |
| 81 POLICE ALARM | 93 AUTO PHONE TEST* |
| 82 AUXILIARY ALARM | 94 RECEIVER TROUBLE |
| 83 PHONE TEST | 95 PANEL BACK IN SERVICE |
| 84 OPENING REPORT* | 96 FAILURE TO COMMUNICATE |
| 85 CLOSING REPORT* | 97 NO PHONE LINE |

SECURITY

SYSTEM

OWNER'S

MANUAL



CareTaker[®] 