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# XL-3

## SECURITY SYSTEM

## OWNERS MANUAL



FIRE BURGLARY INSTRUMENTS, INC.

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## INTRODUCTION

Congratulations on your decision to protect your home or business with the XL-3 series security system. You have chosen a reliable, state of the art security system that is remarkably easy to operate. Your system has been professionally installed by your local security company who can explain the specifics of your system within your location.

The keypad is the arming station for your security system. These are available keypads for your system:

**XL4612RM** Metal plate keypad containing indicator lights for each of the 12 zones (areas of protection). This keypad can be flush mounted into your wall or surface mounted in a back box.

**XL 4612SM** This is a surface mount keypad with 12 LEDs for monitoring zone status.

**7015** Keypad with a plastic case and with indicator lights to show the status of each of the zones. The zone indicator lights are located behind the plastic sliding door of the keypad (left hand side). NOTE: This keypad displays zone status indication lights for 16 zones.

**7005** Keypad with a plastic case and a two line LCD (liquid crystal display) with a two line readout.

Please identify the keypad(s) present on your system from the diagrams shown in the sections that follow.

The XL-3 is the Residential version of the which has been Listed by Underwriters Laboratories for household Fire and Burglary applications.

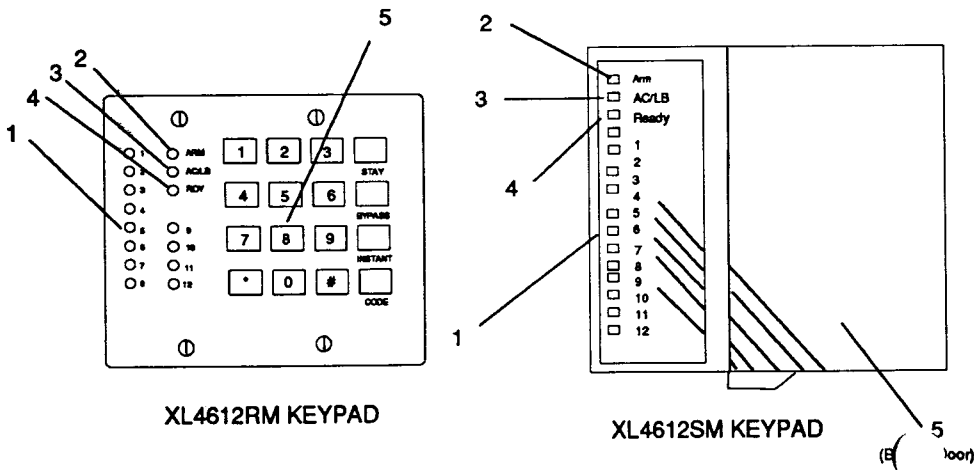
The model XL-3B is the Commercial Burglary configuration of the control panel and has been Listed by Underwriters Laboratories for Commercial Burglary applications.

**NOTE: Owners manual not to be removed by anyone but the occupant.**

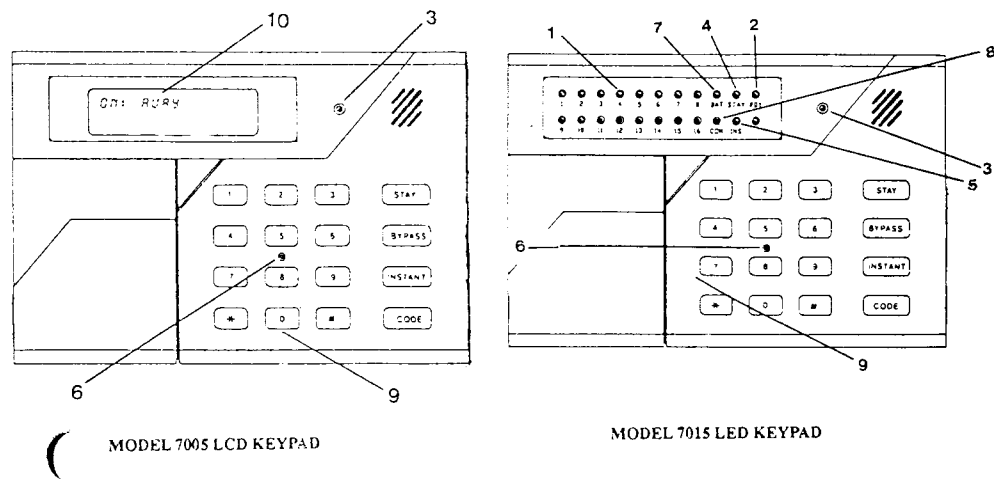
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# 1. KEYPAD LAYOUT XL4612RM and XL4612SM



# 2. KEYPAD LAYOUT 7015 and 7005



1) ZONE STATUS INDICATORS - displays the current zone status as follows:

ALARM	Fast blinking.
BYPASS	Slow blinking low intensity.
TROUBLE	Slow pulse
NOT READY	Solid ON
READY	OFF

2) ARM/DISARM INDICATOR - indicates system armed or disarmed. If the system is armed (ARMED indicator ON) then the RDY light will indicate the arming mode (see item 4 below).

3) AC/LOW BATTERY - shows whether the system is running on AC (ON) or backup battery (OFF). If the light is blinking slowly then the battery is low, if it is blinking rapidly then there is a telephone line failure detected.

4) READY Indicates whether the system is ready for arming (ON = Ready, OFF = Not Ready).

In addition, the RDY light shows the arming status if the ARMED LED is ON as follows:

- OFF = Armed in Away mode
- Slow Blink = Armed in STAY mode (interior zones bypassed)
- Fast Blink = Armed in INSTANT mode (exit/entry delay eliminated)
- Fast & Slow Blink = Armed in STAY-INSTANT mode

5) NUMERICAL KEYPAD operates in a similar manner to a calculator or telephone with the digits 0 - 9 and \* # clearly marked.

The 7015 contains indicator lights for the zone status, and the 7005 keypad contains a two line English language display.

1) ZONE STATUS INDICATORS - Your protected location has been divided into areas of protection known as zones. The zone indicators display the current status of each zone as follows:

ALARM	Fast blinking.
BYPASS	Slow blinking low intensity.
TROUBLE	Slow pulse
NOT READY	Solid ON
READY	OFF

- 2) READY Indicates whether the system is ready for arming.
- 3) ARM/DISARM IND. Indicates system is armed (ON)/disarmed (OFF).
- 4) STAY- indicates system is armed with the interior zones bypassed.
- 5) INSTANT - Indicates system is ARMED with all delay zones instant.
- 6) AC - indicates system is running on AC (ON) or backup battery (OFF).
- 7) BAT - Indicates low battery. Slow pulse = low battery, OFF = Normal
- 8) COM Indicates a communications failure with the Central station
- 9) NUMERICAL KEYPAD operates in a similar manner to a calculator or telephone with the digits 0 - 9 and \* # clearly marked.
- 10) DISPLAY AREA - This section of the LCD keypad displays the current system status in this two line display. The second line of this display can be programmed by your installer to contain customized descriptors for the areas of protection within your location. The OFF-NORMAL installer programming mode is identified by a flashing READY (on LED models) and by the display "PROGRAM MODE" on LCD keypads. The panel is disabled in this mode. Call for service if this condition persists.

### 3. KEYPAD CONVENTIONS

Throughout this users manual the following conventions are used to display the keystrokes required to perform the functions.

<b>BYPASS</b>	Key labeled <b>BYPASS</b> on keypad.
<b>INSTANT</b>	Key labeled <b>INSTANT</b> on keypad.
<b>STAY</b>	Key labeled <b>STAY</b> on keypad.
<b>CODE</b>	Key labeled <b>CODE</b> on keypad
<b>[USER]</b>	Four digit user code.

### 4. ARMING THE SYSTEM

ARMING the system will activate all portions of your Security System. Arming can only be performed if all zones are READY. For example, if a protected door is open the system cannot be armed.

#### SYSTEM READY

The system is ready to be armed if the READY indicator light ON (LED- based keypads). On LCD-based keypads the following display will appear:

SYSTEM READY

If the system is ready, ARMING can be performed as follows;

#### ARMING PROCEDURE:

1. Enter your four digit user code into the keypad: **[USER]**

The ARMED indicator light will now be lit and if you are leaving the home you may exit through a door designated by your installer as an exit/entry zone for a fixed time period known as the exit delay. The entry exit times for your system are as follows;

**ENTRY:** \_\_\_\_\_ seconds- **EXIT:** \_\_\_\_\_ seconds

LCD keypads will display the following message;

ON AWAY .....

**NOTE:** For commercial systems (XL3B) installation, a 2 sec. Bell Test is provided. Following receipt of the off-premise transmission from the control at the central station, several beeps are heard from the keypad as confirmation. If neither of these conditions occur, CALL FOR SERVICE.

**NOTE:** The system can be armed without the backup battery connected.

### SYSTEM NOT READY

If the system is not ready to be armed the READY indicator will be OFF. On LED based keypads the zone indicator lights will display the zones which are currently not ready. The condition of each zone indicator reflects the status of each zone as follows;

<b>ALARM</b>	Fast blinking
<b>TROUBLE</b>	Slow pulse
<b>NOT READY</b>	Solid ON
<b>BYPASS</b>	Slow blinking/low intensity

The LCD keypad a display indicates the system is not ready followed by displays showing the zone number and description of the faulted zone.

For example:

SYSTEM NOT READY

NOT RDY      ZN 01  
FRONT DOOR

In this example, the front door is not ready (Zone 1). In order to make the system ready determine which zones are not ready by observing the zone indicator lights, or the display section of the LCD keypad. From the zone number you can find out which area of protection is not ready. For example, assume the zone 1 is not ready. Typically, this might mean that a protected door or window is open.

- Once the problems with each zone have been resolved the READY light will appear and the system can be armed.

To ARM the system when the system is NOT READY one of the following actions are necessary:

- Make the zone(s) ready. Determine which zones are not ready and perform what is necessary to ready the zone(s) (example, close the door or window, etc.), or
- Bypass the zone(s) not ready. Bypassing should only be performed if the zone cannot be made ready or intentionally will remain not ready. Zones that are bypassed are **not** protected when the system is armed.

## 5. DISARMING

Disarming the security system will deactivate the system's burglary function. This procedure can also be used to reset your system if you accidentally set off the system (example, opened a window while the system was armed, or excessive amount of smoke activated fire protection system).

### DISARM PROCEDURE:

[USER] Enter your user code.

#### IF NO ALARMS HAVE TAKEN PLACE

Upon disarming the ARMING indicator will go off.

The system display will reflect the current status. LCD keypads should display the SYSTEM READY display.

#### IF ALARMS HAVE TAKEN PLACE

If alarms or other conditions such as system troubles have taken place since the initial system arming, they will appear on the display. The conditions that have occurred appear in the zone display section of the keypad. LED based keypads will reflect the current system status through the indicator lights as follows:

ALARM	Fast blinking.
BYPASS	Slow blinking low intensity.
TROUBLE	Slow pulse
NOT READY	Solid ON

Burglary alarms will be indicated with a STEADY sound through the keypad while FIRE alarms will generate a pulsing sound.

LCD keypads will show the alarm conditions with a display as follows:

```
ALARM   ZN 01
FRONT DOOR
```

This display shows the zones in alarm. After entry of your four digit user code the following display will appear:

```
ALARM MEM  ZN 01
FRONT DOOR
```

If an intrusion has taken place while you were away, do not enter until the location has been secured!!! Call for help from a neighbor's phone.

- To clear the display of the alarm or trouble conditions and silence the audible signal enter [USER] again.

## 6. STAY

The STAY mode deactivates any interior protection zones and you will be free to walk throughout your location without activating the alarm system. To enter the STAY mode, the system must be READY. (see previous description).

### STAY PROCEDURE:

STAY [USER]

Depress the STAY key followed by your user code. After a successful STAY arming the ARMED indicator will be lit. In addition, on the XL4612RM or XL4612SM keypad the RDY indicator will slowly blink. On the 7015 keypad the STAY indicator will be lit. On the LCD keypad the following display will appear:

```
ON: STAY
```

(The STAY mode only the external or perimeter burglary protection is active. You are free to walk around the residence without activating any of the interior protection zones

- Remember, you must DISARM the system to when you want to leave the premise.
- Note: The STAY option will automatically be reset after the system is disarmed.

## 7. INSTANT

The INSTANT mode arms the system and eliminates the entry time delay interval. This mode could be used so that if anyone enters through an entry/exit zone the alarm system will instantly activate. The system must be ready to select the INSTANT option.

### INSTANT PROCEDURE:

INSTANT [USER]

Depress the INSTANT key followed by your user code. Upon successful arming, the ARMED indicator will be lit. Additionally, keypad the RDY light will blink, the XL4612RM or XL4612SM. (NOTE: This blink is slightly faster than the indication for the STAY mode.) On the 7015 keypads the INSTANT indicator will be ON. The LCD keypad will contain the following message:

```
ON:INSTANT
```

- Note: The INSTANT option will automatically be reset after the system is disarmed.

## 8. INSTANT - STAY

The INSTANT STAY mode arms the system with the characteristics of both the INSTANT and STAY modes with the interior portions bypassed and the entry delay suspended. The system must be READY to enter this mode.

### PROCEDURE:

**INSTANT STAY [USER]**

or

**STAY INSTANT [USER]**

Depress the INSTANT and STAY keys in any order followed by your user code. After a successful INSTANT STAY arming the ARMED indicator will be lit. Additionally, the RDY light on XL4612RM and 4612SM keypads will blink slowly then rapidly. On the 7015 keypads both the INSTANT and STAY lights will be ON. The 7005 keypad will contain the following message;

ON:STAY INSTANT

- You cannot exit the premises through an exit/entry zone while the system is armed in this mode.

## 9. BYPASS

Bypasses are performed to eliminate burglary zones that are not ready or faulty from activating the security system.

### BYPASS PROCEDURE:

**BYPASS [USER] ZN**

Depress the BYPASS key followed by your user code and two digit zone number (01-12) to be bypassed. Example: **BYPASS [USER] 02** bypasses zone 2. If the zone has been bypassed already, the sequence will unbypass the zone (except if the system is armed and the unbypassed zone is still not ready). Unbypass returns the zone to protected status.

After the bypass (or unbypass) command has been accepted the unit will emit a continuous beep and bypassed zones appear in a slow blinking mode in the zone status area on the XL4612RM, XL4612SM or 7015 keypads. The 7005 LCD keypad displays the zone bypasses as a secondary display after the SYSTEM READY or SYSTEM NOT READY as shown below:

BYPASS ZN 01  
FRONT DOOR

If multiple zones are bypassed then more than one display will appear. Remember: Zones which are bypassed are not protected when the system is armed. Temporary users (i.e. babysitters) shall be shown the bypass procedure.

## 10. UNBYPASS

The UNBYPASS function removes an existing bypass from a currently bypassed zone. After UNBYPASSING a zone, the bypass removed for that zone on either the LCD or LED keypad. The procedure is similar to a bypass.

### UNBYPASS PROCEDURE:

**BYPASS [USER] ZN** See bypass description.

## 11. USER DEFINITION

Users can be entered or modified directly through the keypad. The security system can have up to thirty different users. Users number 1 & number 2 are known as the master users and are the only users allowed to modify other user operating parameters.

### USER DEFINITION PROCEDURE:

**CODE [USER] [US number] [USERID]**

where;

**CODE** is the CODE key on the keypad

**[USER]** master user code [User number 1 or User number 2, four digits].

**[US number]** User number (01-30)<sup>+</sup>

**[USID]** New user ID (0000 - 9999).

Note: <sup>(+)</sup>If ambush code capability has been enabled by your installing company then user number 30 will be used as the system ambush code. If an arming only code (maid code) has been defined by your installer then user number 29 can only arm the system. If a single user door strike code has been created by your installer then user number 28 is dedicated to that function.

Please check with your installer to determine whether any of these special purpose users codes exist.

Example:

To create user number 13, with a user access code of 4567, (assume a master user code of 1492), enter; CODE 1492 13 4567

- Any error detected during the USER definition process will cause the keypad to beep rapidly four times. If an error is detected retry the entire command.

Obvious codes like 1111 or 1234 should be avoided.

## 12. USER DELETION

Removal of users from the panel can be performed as follows;

### **USER DELETION PROCEDURE:**

CODE [USER] [User number ] #

Where:

CODE is the depression of the CODE key.

[USER] Master user code

[User number ] Represents the user number being deleted (03-30). Note:

Master users (User number 1 or number 2) cannot be deleted.

# is the # key from the keypad.

Example: Delete user number 26 (assume a master user code of 6789):

CODE 6789 26 #

## 13. KEYPAD AUXILIARY CONDITIONS

The system can also initiate three separate AUXILIARY conditions directly through the keypad. These conditions must be activated by your installer and can be initiated through simultaneous depression of two keys as follows:

### DESCRIPTION    KEYSTROKES

Panic	* #
Fire	7 9
Aux.	1 3

For example, to initiate a keypad panic signal press the \* and # keys at the same time. Consult with your alarm installer to determine the operation of these conditions within your system. In UL installations, the AUX alarm is silent. The 4612SM keypad has keys for specially defined auxiliary functions. Their functions are activated by simultaneously depressing two keys. NOTE: Consult your installer to determine the auxiliary functions of your system.

## 14. DURESS

Ambush can be programmed by your installer to send an emergency signal to the Central Station if you are forced to enter the premises. If active, code number 30 is ambush code.

## 15. ARM-ONLY (MAID) CODE

If selected by your installer, the user code number 29 can only arm the system. This allows a temporary worker to only arm the security system as they leave

## 16. DOOR STRIKE USER CODE

In certain installations there may be a door (or other device) which is programmed to activate by entering a user code. If configured by your installer, number 28 can be dedicated for this purpose. If programmed, then entering user number 28 will not arm or disarm the system but will activate an external device such as a door strike. This feature has not been investigated by UL. The system is not Listed for Access Control applications.

## 17. KEYPAD TAMPER

If 21 characters have been entered without a valid user code or command, the keypad will beep continuously. Silence by entering a valid user code.

## 18. QUICK ARMING (# 1)

When selected by the installer, this command will arm the system without entry of a user code. NOTE: System disarming will require a user code. To quick arm enter: # 1

## 19. QUICK FORCED ARM (# 2)

When selected by the installer, this command (# 2) arms the system without entering a user code and bypasses any unready burglary zones. Quick forced arm:# 2

## 20. SET TIME OF DAY (# 3)

The system contains a real-time clock for the auto-arming and system test capability. The time of day can be set through any keypad using the following command: # 3 [USER] HR MN

Time entry is performed in 24 hour time (military time). For example to set the clock for 10:25PM (assume a user code of 4567) enter: # 3 4567 20 25

- NOTE: If the system clock needs to be reset, the XL4612RM, XL4612SM or 7015 keypads will blink rapidly in succession every 30 seconds. The 7005 keypad will display a message. This could occur if the time has never been set or if total system power (AC and battery) was removed for a prolonged period of time.
- Consult your installer to determine whether your user code is necessary for setting the time. This feature is disabled in UL installations.

## 21. ZONE DIRECTORY (# 4)

To view a list of the zone descriptors from the 7005 keypad, enter: # 4

## 22. SET AUTO-ARM TIME (#5)

Another option selectable by your installer is auto arming. This feature means that the system can be programmed to arm at a preprogrammed time every day. This will occur at the selected time if the system is not already armed. For example, if you have an 11:30 PM auto-arming time programmed and fall asleep without arming the system, the panel will automatically arm at 11:30.

### WARNING INDICATOR

A warning signal can be selected by your installer to provide an audible warning two minutes prior to the auto-arming time. This warning will repeat every 30 seconds until the auto-arming time. To disable, simply enter your four digit user code. The keypad will emit a beep and the indicator lights on LED based keypads will blink rapidly to acknowledge that you have removed the auto-arming time for the day.

### HOW TO CHANGE THE AUTO-ARMING TIME

To modify the auto-arming time enter: #5 [USER] HR MN. For example: change the auto-arming time to 11:45 PM (user code of 5678) enter: # 5 5678 23 45

- NOTE: All times are entered in 24 hour (military) time.
- This feature is disabled in UL installations.

## 23. CHIME MODE (#6)

The optional chime mode causes the keypad to beep for one second every time selected zones such as the entrance door are opened while the system is disarmed. For example, this could inform you each time the front door was opened while you were at home. To activate, press # 6 from the keypad. If the chime feature has already been turned on, another #6 will turn the feature off.

## 24. READ CLOCK TIME (#7) LCD Only

Upon entering #7, the LCD display shows the current time.

## 25. READ AUTO SET TIME (#8) LCD Only

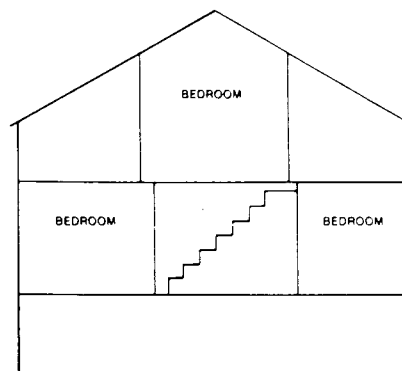
Upon entering #8, LCD display shows the time that system will auto-arm.

## 26. DOOR STRIKE COMMAND (# 9)

If enabled by your installer a valid user can activate any of the system door strikes through the following command: # 9 [USER] [door strike number] For example: activate door strike 3 (with user code of 2468) enter: # 9 2468 3

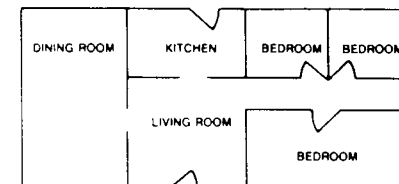
## 27. INSTALLATION LAYOUT

Early warning fire detection is best achieved by the installation of fire detection equipment the location as follows;



In homes with more than one sleeping area a smoke detector should be provided to protect each area

Typical Smoke Detector Layout  
(Proposed)



Smoke detector shall be located between the sleeping area and the rest of the house

- NOTES
- 1 Designates smoke detectors
  - 2 Refer to N.F.P.A. #74 Appendix B-1.1 thru B-10

Preparation of an evacuation plan is of prime importance in fire prevention. Establish a household emergency evacuation plan in the event of fire. Refer to the Smoke Detector instructions for exact mounting, layout and spacing.

1. Evaluate possible escape routes from your home.
- 2- Select 2 escape routes from each room.
3. Rooms on the second floor should have a rope ladder. Be sure it will reach the ground.
4. Draw a sketch of your escape plan so everyone is familiar with it.
5. Practice your escape plan to assure that everyone knows what to do.
6. Establish a meeting place outside where your family is to report. Once you have evacuated the house do not return to a burning house.
7. Advise the local fire authority that you have installed a fire alarm system.
8. When the fire alarm signals, LEAVE IMMEDIATELY. Do not stop for belongings.
9. If a fire occurs, test the door. If hot, use your alternate route. If the door is cool, brace your shoulder against it and open it cautiously. Shut the door to help prevent the fire and smoke from spreading. Crawl through smoke, holding your breath.
10. Contact the Fire Department from a neighbor's telephone.
11. Everyone including neighbors should be familiar with the Fire and Burglary signals. In this installation the Fire Alarm signal is \_\_\_\_\_ The Burglary Alarm signal is \_\_\_\_\_ The fire alarm signal takes precedence over the burglar alarm signal.



## 28. SYSTEM TESTING

This control unit was manufactured under rigid quality standards. Maintenance is best performed by your installing company with trained service personnel.

Installing Company: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_

It is recommended that you test your system once a week using the following procedure:

- Note: If your system is monitored by a Central Station then contact them prior to performing this test.

- 1- Arm your security system.
- 2- Activate the system by opening a protected zone (example, window, or door).
- 3- Confirm that the alarm sounding device (bell or siren) activates. If your system is connected to a Central Station then the keypad will emit a ringback sound to confirm that the signal was received.
- 4- Disarm the system to silence the system and return to normal status.

### BATTERY TEST

In order to test the backup battery the following procedure should be performed;

- 1- Remove the AC transformer from the AC outlet by removing the restraining screw which secures the transformer to the wall. (Note: the screw is not present in models sold in Canada).
- 2- Observe that the AC light goes off on the keypad.
- 3- Activate your alarm system using steps 1-4 listed above.
- 4- Replace the AC transformer to the AC outlet and secure using the retaining screw (Note: The retaining screw is not present in models sold in Canada).

The National Fire Protection Association publishes a standard for household fire warning equipment. N.F.P.A. #74. Further information can be obtained by contacting; NFPA Public Affairs Dept., Batterymarch Park, Quincy, MA 02269.

If you have any further questions about the operation of your system, call your installer.

## FEDERAL COMMUNICATIONS COMMISSION (FCC) STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is in strict accordance with the manufacturer's instructions may cause interference to radio and television reception. It has been tested and found to comply with the limits of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause 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: If using an indoor antenna, have a quality outdoor antenna installed.

- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the control/communicator.
- Move the antenna leads away from any wire runs to the control/communicator.
- Plug the control/communicator into a different outlet so that it and the radio or television receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "Interference Handbook". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-00450-7.

The user shall not make any changes or modifications to the equipment unless authorized by the installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

### IN THE EVENT OF TELEPHONE OPERATIONAL PROBLEMS

In the event of telephone operational problems, disconnect the communicator by removing the plug from the RJ31X jack. Do not disconnect the phone connection inside the communicator. Doing so will result in the loss of the phone works correctly after the communicator has been disconnected from the phone lines, the communicator has a problem and should be returned for repair.

If upon disconnecting the communicator, there is still a problem on your line, notify the telephone company that they have a problem and request prompt repair service. The user may not under any circumstances (in or out of warranty) attempt any service or repairs on the system. It must be returned to the factory or an authorized service agency for all repairs.