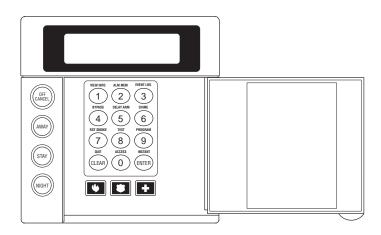
# How to Use Your Sentrol Security System

# ZXLCD/ZXVFD

**Control Station** 



**Thank you** for choosing the ZX200/ZX210 or the ZX400/ZX410/ZX440F Security Control. This control will provide you with years of reliable operation when properly installed and maintained.

To maximize the benefits of your Security System, it is important to carefully read the entire contents of this manual and become familiar with all control operations. Your Security Company Representative has recorded confidential information about your system in this manual, therefore, you should store it in a secure place. Contact your Security Company Representative immediately with any questions.

It is important to note however, that no security system provides total protection over life or property, nor can it detect intrusion or other conditions in all circumstances. Ask your Security Company Representative to fully review the features of your system, indicate areas of potential risk, and detail recommendations for future upgrades to the system.

The following is a list of general precautions you should follow to maximize the benefits of your security system:

- 1. The system must be tested at least once per week to ensure proper operation. Contact your Security Company Representative for testing procedures and scheduling of a regular maintenance program.
- 2. If the system is malfunctioning, have it serviced by a qualified professional as soon as possible.
- 3. If the electrical system of the building is altered, be sure that the changes do not create an interruptible power supply to the control panel.
- 4. If the telephone system is serviced, test the security system to ensure that communication to the Central Station is intact.
- 5. Motion detectors are designed to detect specific types of motion within a defined area. Be sure that you understand which areas are protected and under what conditions the system is active (temperature and time variations, etc.).
- Smoke detection devices cannot detect all types of fire under all circumstances.
   Have your Security Company Representative explain the limitations of your fire
   system. Have smoke detectors cleaned and tested on a regular basis.
- 7. Security systems rely upon electrical power as a primary power source. When the electrical power fails, the control is powered by a standby battery. The standby battery is automatically checked by the system and should be replaced by a qualified service technician at regular intervals.
- 8. If upon returning to the building, you discover that an alarm has occurred, **DO NOT ENTER THE PREMISES.** Immediately contact the proper authorities.
- 9. Be sure to inform your neighbors that a security system has been installed. Also explain the meanings of the various audible signals and ask them to contact the appropriate authorities upon activation of an alarm.
- 10. The ZX200/ZX210 and the ZX400/ZX410/ZX440F Security Controls are UL Listed for Grade A Household Burglary and UL requires that audible burglar alarms be sounded by a bell and fire alarms by a horn. For combination burglar and fire alarm systems, the sounder will emit a temporal tone for fire alarms and a steady tone for burglar alarms. The fire alarm signal takes priority over the burglar bell.
- 11. UL requires that exit times not exceed 60 seconds. Entrance times may not exceed 45 seconds. Cutoff time for siren/bell cannot be less than 4 minutes for residential fire and burglary and 15 minutes for commercial burglary.

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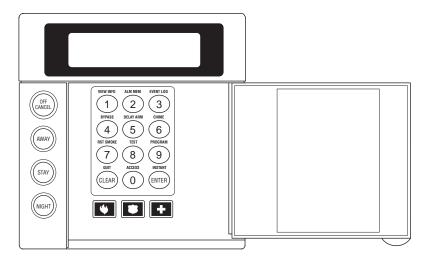
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# **Operating Your System**

**Read these instructions carefully** to familiarize yourself with the system. Your system has been customized to meet your specific requirements. Some features discussed are optional and may not be programmed in your particular system. If you have questions concerning the features on your system, consult your Security Company Representative.

#### The LCD & VFD Control Station



(ZXLCD and ZXVFD)

### The Control Station Keys

View Info Key

This key is used to view system information.

- Alarm Memory Key
  Allows you to display the most recent zones where an alarm occurred.
- 3 Event Log Key (ZX400/ZX410/ZX440F only)
  Allows you to view events on the keypad. If a printer is attached, you may print the recorded activities.
- 4 Bypass Key
  Allows you to turn your system ON with one or more zones intentionally left unprotected until the system is turned OFF.
- Delay Arm Key (ZX400/ZX410/ZX440F only) Extends or postpones the Automatic-ON by one hour.
- 6 Chime Key
  Turns the door/window monitor ON or OFF.
- 7 Reset Smoke Key
  Resets all smoke detectors in alarm.
- 8 Test Key
  Allows you to perform system testing.
- Program KeyUsed to enter the programming mode.
- O Access Key
  Used to activate a door strike or other access output function.
- Quit Key
  Used to reset any entry error and to allow you to exit out of an operation.
- Instant Key
  Used in programming to store entered data. May also be used to disable the entry and exit countdown time when pressed during the countdown time when turning the system ON with STAY or NIGHT.
- OFF CANCEL Used to turn OFF, silence, or cancel conditions.

#### **Armed Status Indicator**

These keys, followed by your passcode, are used to turn your system ON. Each key corresponds to a different level of security.



No one at home; total protection; all sensors are ON.



Building is occupied; selected door and window sensors are ON.



Bedtime; selected door, window and interior sensors are ON.

#### **Panic Keys**

When enabled, these keys activate the auxiliary alarms (Fire, Police, Medical) or call your pager. Consult with your Security Company Representative for details.



Fire



Police (Hold Up)

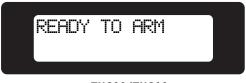


Medical (Auxiliary)



**Pager** 

## **The Control Station Display**



ZX200/ZX210



ZX400/ZX410/ZX440F

#### NOTE

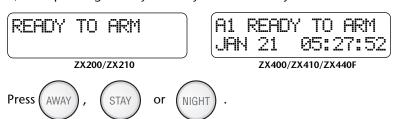
To save power, the LCD Control Station display will dim and the VFD Control Station display will go into screen saver mode after four (4) minutes of no keypresses or sounder activity. Press any key to turn the display back ON.

## **Turning Your System ON**

Close all doors and windows.

3.

2. Check for a Ready display on the Control Station. If you do not see it, see Operating Your System - System Not Ready.



If you turn your system ON in the AWAY mode, the Control Station will display:



#### NOTE

The examples in this manual show the AWAY prompt. The prompt may show STAY or NIGHT.

4. Enter passcode:

The Control Station will briefly display:



5. The Control Station will then begin exit countdown time. It is safe to exit the building during the countdown time. If you exit during the last 10 seconds of countdown time, the timer will restart the countdown once. If you turn your system ON in the AWAY mode and you do not exit, the countdown will begin again only once so that you may exit.

When turning your system ON in the STAY or NIGHT mode, you may press the ENTER key during the countdown time to cancel the countdown and turn your system ON instantly. When you cancel the countdown time, the entry time is also disabled. If your front door is opened while the system is turned ON, an alarm will occur immediately.

# **Turning Your System OFF**

1. Press (CANO

. The Control Station will display:

TO TURN OFF ENTER PASSCODE

2. Enter passcode:









The Armed Status Indicator light will turn OFF.

## **Silencing Alarms**

To silence an alarm:

1. Press OFF CANCEL





2. Enter passcode:









Silencing an alarm quickly may prevent a false alarm from being reported to the authorities. If the Armed Status Indicator light is NOT flashing, you can stop the false alarm from being reported. If the Armed Status Indicator light is flashing, then the false alarm has been reported and you need to contact the Central Station. When you silence an alarm that has been reported, the Control Station will go into Alarm Memory mode. See Alarm Conditions - Alarm Memory. When you silence an alarm before the alarm is reported, the Control Station will briefly display:

ALARM CANCELLED

Not Displayed on ZX200

#### **System Not Ready**

- Press the View Info key (Key #1) repeatedly to view zones not ready. The Control Station will display the zone condition and the zone number.
- 2. Secure zones not ready. If you cannot secure a zone or do not want to secure a zone, you may still turn the system ON by bypassing the zone. See Optional Features Bypass and Force Arming.

## **Changing The Security Level**

From the STAY or NIGHT mode



If you turn your system ON in the AWAY mode, the Control Station will display:



#### NOTE

The examples in this manual show the AWAY prompt. The prompt may show STAY or NIGHT.



3. The Control Station will then begin exit countdown time. It is safe to exit the building during the countdown time. If you exit during the last 10 seconds of countdown time, the timer will restart the countdown once. If you turn your system ON in the AWAY mode and you do not exit, the countdown will begin again only once so that you may exit.

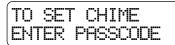
NOTE

When the system is turned ON in the STAY or NIGHT mode, you can switch between these modes as often as you wish without turning your system OFF. When the system is turned ON in the AWAY mode, you must turn your system OFF first before you can change security levels.

#### Chime

To enable or disable a "Chime" sound whenever an exterior window or door zone is opened:

1. Press 6 . The Control Station will display:



2. Enter passcode:

The Control Station will display whether the chime was turned ON or if it was turned OFF.

# **Viewing and Printing The Event Log** (ZX400/ZX410/ZX440F only)

The Event Log is a record of the activities of your security system. You may print the Event Log if you have a printer attached.

To enter into the Event Log:

1. Press (3) . The Control Station will display:

FOR EVENT LOG ENTER PASSCODE

2. Enter passcode:

The Control Station will display:

ENTER 1=VIEW 2=PRINT If 1 is selected, the Control Station will display the last event that occurred. Press:



To scroll backwards through the event log



To scroll forward



To return to the Ready mode

If 2 is selected, the recorded information will be sent to the attached printer.

# **Optional Features**



#### **Bypass** - (<u>DO NOT</u> enable for UL Listed Systems)

This feature allows you to turn your system ON with one or more zones intentionally left unprotected until the system is turned OFF.

#### WARNING

Bypassed zones are unprotected and will not cause an alarm if opened while your system is ON.

### **Group Bypass** - (to intentionally bypass all open zones)

1. Press



The Control Station will display:

Enter passcode: 2.









The Control Station will display:

70WF

3. Press



to bypass all open zones, then press (ENTER

The Control Station will briefly display:

then returns to the zone selection display:

ZONE

4. made.



Press (ENTER) to save changes or (CLEAR) to cancel any changes

After saving any changes, the Control Station will briefly display:



before returning to the READY prompt.

# **Selective Bypass/Unbypass** - (to intentionally bypass/unbypass a specific zone)

1.	Press	$\overline{4}$		The Control	Station	will	display:
----	-------	----------------	--	-------------	---------	------	----------



2. Enter passcode:

The Control Station will display:



3. Enter the zone number , then press ENTER

The Control Station will briefly display the zone that was bypassed/unbypassed and then return to the zone selection display.



Repeat step 3 for each zone you wish to bypass or unbypass. See Protection Zones for a list of zone numbers and descriptions.

4. Press ENTER to save changes or CLEAR to cancel changes.

After saving any changes, the Control Station will return to the READY prompt after briefly displaying:



# **Removing Bypass**

1. Press 4 . The Control Station will display:

TO BYPHSS ZONES
ENTER PRISCODE

2. Enter passcode:

The Control Station will display:



3. Press 0 to unbypass *all* bypassed zones, then press ENTER

The Control Station will briefly display:

ZONE 00 - ALL ZONES UNBYPASSED

then returns to the zone selection display:



4. Press ENTER to save changes or CLEAR to cancel changes.

After saving any changes, the Control Station will return to the READY prompt after briefly displaying:

BYPASSING COMPLETE

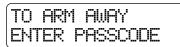


# Force-Arming - (<u>DO NOT</u> enable for UL Listed Systems)

When you turn the system ON with Force-Arming, the system will not turn ON any zones that are not ready. Once the zone is secured, that zone is automatically turned ON and will cause an alarm if it is violated. See Operating Your System - System Not Ready, to identify zones that are not ready.

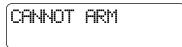


The Control Station will display selection:

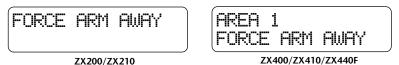


2. Enter passcode:

The Control Station will display:



3. Within 5 seconds, press the same key that was pressed in Step 1 above. The Control Station will briefly display:





#### Turning Your System ON Using Two Button/ Double Press

Your system may be programmed to quickly turn ON using either the two button method or the double press method.

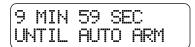
The two button method allows you to quickly turn your system ON by pressing the AWAY, STAY, or NIGHT key and then pressing the Enter key.

The double press method allows you to quickly turn your system ON by pressing the AWAY, STAY, or NIGHT key twice.



# Exit-ON (ZX400/ZX410/ZX440F only)

This feature allows your system to turn ON automatically ten (10) minutes <u>after</u> you leave the premises and no other activity is detected. Your Control Station will display a visual countdown



and then sound an audible warning at two (2) minutes and one (1) minute before the system turns ON. See ZX400/ZX410/ZX440F Programming - Cancelling Exit-ON For Today for instructions on how to cancel this feature for the day.



# **Automatic-ON** - (<u>DO NOT</u> enable for UL Listed Systems) (ZX400/ZX410/ZX440F only)

This feature turns your system ON at a scheduled time daily. Your Control Station will periodically display a visual warning and sound an audible warning each minute starting at ten (10) minutes before the system turns ON. See ZX400/ZX410/ZX440F Programming - Programming the Automatic-ON Feature and Cancelling Automatic-ON For Today.

#### **Delay Automatic-ON** (ZX400/ZX410/ZX440F only)

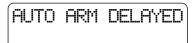
To postpone the Automatic-ON for one hour <u>after</u> the audible warning begins:

1. Press (5). The Control Station will display:

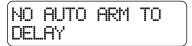


2. Enter passcode:

If Automatic-ON has been delayed, the Control Station will display:



If the audible warning for Automatic-ON has not started, then the display will state:



#### NOTE

You cannot extend the Automatic-ON time past midnight.



# **Keyswitch Operation**

To turn your system ON/OFF or to silence an alarm:

- 1. Insert key
- 2. Turn key and hold for a second
- 3. Remove key

#### NOTE

If key is used to turn the system ON, the system will be turned ON in the AWAY mode only.



# **Access Output** (This system is not UL Listed for Access Control)

To activate an Access Output device or door strike:

1. Press () . The Control Station will display:



2. Enter passcode:



To send a silent alarm signal:





#### **Panic Keys**



To activate a panic key, you must press and hold the panic key for three (3) seconds. On the ZX400/ZX410/ZX440F, you have the option of pressing the panic key twice within 1 second. Double press is not available with the ZX200/ZX210. Ask your Security Company Representative how your panic keys are enabled. See System Reference Guide for a listing of which Control Stations have the panic keys enabled and the sound for each key.

#### NOTE

An audible alarm may result. To silence the alarm, press the Off Cancel key and then enter your passcode.



#### **User On Premise**

When a User On Premise passcode is used to activate an access output, disarm, or silence an alarm, notification will be reported to the Central Station or to a pager. See your Security Company Representative for more details.

# **Secondary Function Keys**

Your system may have secondary function keys available. See your Security Company Representative for complete details. To activate:

Press	then 1	to turn the Lamp Trigger OFF/ON.
Press	then $\bigcirc$	to turn the Universal Output OFF/ON.
Press	then $3$	for quick access.
Press	then $4$	to turn an output OFF/ON (ex: room light).
Press	then	to turn an output OFF/ON (ex: basement light).
Press	then	to turn an output OFF/ON (ex: lamp or television).

Below is the description of what your secondary functions keys are programmed to do:

# **Alarm Conditions**

### **Alarm Memory**

To view zones and keypads that caused an alarm:

1. Press (2). The Control Station will display:



2. Enter passcode:

The Control Station will display the alarm type and the source of alarm. The ZX400/ZX410/ZX440F will alternate this display with the time and date that the alarm occurred. If more than one zone (or keypad) caused an alarm, press the View Info key (Key #1) repeatedly to view the alarms.

# **Trouble Conditions**

When your system detects a trouble condition, the Control Station will alternate between displaying the system state (Ready to Arm, etc.) and the trouble message, with each message displayed for two seconds at a time. If more than one trouble condition is present, then each trouble condition is displayed separately. Refer to the Installation Manual or your Security Company Representative for a description of the possible trouble conditions.

### **Silencing Trouble**

To silence the trouble sounder:





2. Enter passcode:

After you silence the trouble sounder, the Control Station display will alternate between the system status and the trouble message. If you have an RF User Device Low Battery or your system is a ZX440F, then as long as the trouble condition is present, an audible trouble output may sound briefly every four hours.

# **Identifying Zone Conditions**

Press the View Info key (Key #1) repeatedly to display the following zone conditions that may have occurred: Trouble Zones, Faulted Zones, and/or Bypassed Zones. The Control Station will display the zone condition and the zone name and number.

#### NOTE

If a trouble condition does not go away, contact your Security Company Representative.

# **Testing Your System**

It is recommended that all tests be performed on a weekly basis. Your system must be OFF to perform these tests. There are six (6) options available.

1	Walk	Verifies that all system zones are operating properly		
2	Battery	Verifies that the system battery is fully charged		
3	Bell	Verifies that the system audibles are operating properly		
4	Communicator	Verifies that the system communicates with the Central Station		
5	Keypad	Verifies that the Control Station lights operate properly		
6	RF Signal Strength	Tests the signal strength of wireless sensors (ZX400/ZX410/ZX440F only)		

#### **Walk Test**

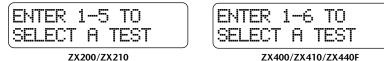
To perform a walk test:

1. Press 8. The Control Station will display:



2. Enter passcode:

The Control Station will display:



- 3. Press 1.
- 4. Open or activate each sensor. As each sensor is opened, listen for an audible and visual indication to occur at the Control Station indicating the sensor is working properly. When all sensors have been opened, return to the Control Station.

- 5. Press 1 repeatedly to view any zones that have not been tested. If you opened a sensor and the Control Station indicates that it was not tested, it may be faulty. Retest the sensor or contact your Security Company Representative.
- 6. Press CLEAR to quit.

### **Battery Test**

The battery test is used by the Security Company Representative to test the battery after a new battery has been installed. Your battery is automatically tested periodically.

To perform a battery test:

1. Press (8) . The Control Station will display:



2. Enter passcode:

The Control Station will display:

ENTER 1-6 TO SELECT A TEST

3. Press 2.

If no trouble condition occurs, the Control Station will sound an audible tone and return to the ready status. If a low/no battery trouble condition occurs, the Control Station will display:

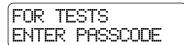


Contact your Security Company Representative when this condition occurs.

#### **Bell Test**

To perform a bell test:

1. Press (8). The Control Station will display:

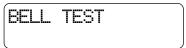


2. Enter passcode:

The Control Station will display:

3. Press (3).

The audible will sound for several seconds. The Control Station will display:



#### NOTE

Notify your neighbors before you test the bell.

#### **Communicator Test**

#### NOTE

Your system must be monitored by a Central Station to perform this test. This test will take a while to perform.

This test is used to verify that your system is communicating with the Central Station.

To perform a communicator test:

1. Press (8). The Control Station will display:



2. Enter passcode:

The Control Station will display:

ENTER 1-6 TO SELECT A TEST

3. Press (4). The Control Station will briefly display:

TESTING COMMUNICATIONS

4. If the test passes, the Control Station will sound four (4) beeps when the test is completed. The Control Station will display:

COMM TEST PASSED

If the test fails, a Communications Failure trouble condition results several minutes later. The Control Station will display:

COMM FAILURE OFF TO SILENCE

# **Keypad Test**

To perform a keypad test:

1. Press (8). The Control Station will display:



2. Enter passcode:

The Control Station will display:

3. Press (5)

The Control Station will briefly light all of its indicators (AWAY, STAY, and NIGHT) and display:

KEYPAD TEST

### RF Signal Strength (ZX400/ZX410/ZX440F only)

If your system includes wireless sensors, then you can test the strength of signals from these sensors by performing an RF Signal Strength test. The strength of a signal can be affected by a low battery condition on the sensor or changes in the environment due to furniture or appliances.

To test the signal strength of selected RF Zones:

1. Press 8 . The Control Station will display:

FOR TESTS ENTER PASSCODE

2. Enter passcode: The Control Station will display:

ENTER 1-6 TO

3. Press (6). The Control Station will display:

DEVICE 00 SELECT RF DEVICE

4. Enter a number between 13 and 28 to select a wireless sensor to test. See Protection Zones for a list of zone numbers and descriptions.

Press (ENTER). The Control Station will display one of the following:

DEVICE 13 NO DEVICE

The selected zone is not RF or is missing.

DEVICE 13 LOW SIGNAL

Call your Installation Representative.

DEVICE 13 ACCEPTABLE

DEVICE 13 STRONG SIGNAL

5. Repeat step 4 or press (CLEAR) to exit.

# ZX200/ZX210 Programming

Your system has several features which you may be able to program yourself. DO NOT attempt to program the system unless you have been properly trained on programming procedures and you fully understand these operations. There are two (2) options available:

	1	Remote Connect	Allows the installer to program and diagnose problems from a remote site using the telephone lines.
ı	2	Program User Codes	Allows you to change any passcodes.

#### **Remote Connect**

Contact your Security Company Representative for instructions.

## **Programming the User Passcodes**

Your system may be programmed with up to 9 user passcodes. Consult your Security Company Representative as to which passcodes have been enabled and what Authority Level has been assigned to each one.

To program User Passcodes:

3. Press 2 . The Control Station will display:
USER 00 SELECT USER ID
4. Enter the User ID Passcode (1 - 9) that you wish to program/change.
5. Press ENTER .
NOTE  The Control Station will display the first digit of the selected User ID passcode. As each new number is selected, the Control Station will display the next digit that may be accepted or changed.
6. Enter new four-digit passcode
Repeat above steps for each passcode to be programmed or press CLEAR to return to the Ready mode.
If the new passcode being entered is a duplicate of an existing one, the Control Station will sound an error tone and return to the first digit location so you may try again.
To view an existing passcode, press ENTER after each digit displayed until all four digits have been displayed.
If you wish to make a User ID passcode inoperable,
enter 0 0 0 as the new four-digit passcode.

#### **Programming the Zone Names**

#### NOTE

This operation cannot be performed from an LED or SSD Control Station. Do not perform this operation during walk test mode or when any keypad is in use.

This feature allows you to program a name in for each zone location (i.e.: zone 1 is the Front Door).

To program zone names:

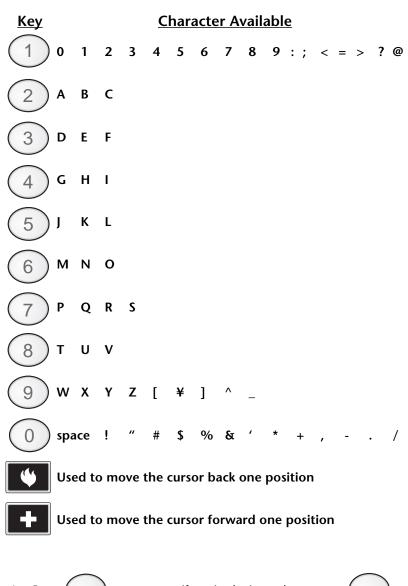
The Control Station will display:



2. Enter zone number: (1 - 8). Press ENTER

See Protection Zones for a list of zone numbers.

3. The Control Station will display the zone number selected on the first line and the zone name to be programmed on the second line. Press the key associated with each character listed on the next page to enter in the new zone name. Each keypress will change the display to the next character listed for that key. A maximum of 12 letters (includes spaces) may be used for each zone name.



- 4. Press CLEAR to start over if a mistake is made or press ENTER to save the zone name and return to the zone number prompt.
- 5. Press (CLEAR) from the zone number prompt to exit.

# ZX400/ZX410/ZX440F Programming

Your system has several features which you may be able to program yourself. DO NOT attempt to program the system unless you have been properly trained on programming procedures and you fully understand these operations. There are eight (8) options available:

1	Remote Connect	Allows the installer to program and diagnose problems from a remote site using the telephone lines.
2	Set Clock	Sets the system date and time. (Military format)
3	Program Automatic-ON	Schedules your system to automatically turn ON at a specific day(s) and time(s).
4	Program Latch Key	Monitors entry of a specific passcode.
5	Program User Codes	Allows you to change any passcodes.
6	Cancelling Automatic-ON For Today	Cancels the system from automatically turning ON for the scheduled time for that day only.
7	Cancelling Exit-ON For Today	Cancels the system from automatically turning ON for Today 10 minutes after you leave the premises for that day only.
8	Program Zone Names	Allows you to enter a name to each zone.

#### **Remote Connect**

Contact your Security Company Representative for instructions.

#### **Set Clock**

The clock is set according to military time (24:00 hours).

To set the clock:

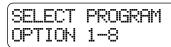




2. Enter passcode:



The Control Station will display:



3. Press (2). The Control Station will display:

4. Set the new time and date. (See example)

Example: To set the clock to 2:15 pm on June 17, 1997:



5. Press CLEAR to start over if a mistake is made or press ENTER to save changes.

#### **Programming the Automatic-ON Feature**

(DO NOT enable for UL Listed Systems)

This feature allows you to automatically turn your system ON at certain times for certain days. There are four items to be programmed:

- A. Setting the Security Level
- B. Day(s) of week to automatically turn ON
- C. Hour to turn ON each day
- D. Minute to turn ON each day

### A. Setting the Security Level

To program the Automatic-ON feature:

1.	Press 9	The Control Station will display:
		TO PROGRAM ENTER PASSCODE
2.	Enter passcode:	
	The Control Sta	tion will display:
		SELECT PROGRAM OPTION 1-8
3.	Press (3).	The Control Station will display:
		LOCATION: 00 VALUE:
4.	Press 1	(for location 1).
5.	Press ENTER .	The Control Station will display the current setting
6.	Press 0 fo	or AWAY, press 1 for STAY, or press 2
	for NIGHT.	
7.	Press ENTER t	o save selection and return to the location prompt.

### B. Day(s) To Turn ON

To select the day(s) of the week you want your system to automatically turn ON, add together the values below for those days selected.

<u>Value</u>	Day of the Week
1	Sunday
2	Monday
4	Tuesday
8	Wednesday
16	Thursday
32	Friday
64	Saturday

**Example:** To have your system automatically turn ON for Monday, Tuesday, and Saturday, add 2 + 4 + 64. Enter the value 70.

8. The Control Station will display:



- Press 2 (for location 2).
- 9. Press ENTER . The Control Station will display the current value.
- 10. Enter new value: (0 127)
- 11. Press ENTER to save selection and return to the location prompt.

#### C. Hour To Turn ON Each Day

If the time scheduled is from 12:00 am to 12:09 am, the ten minute warning period will not begin until 12:00 am and will therefore be less than the set ten minute time period.

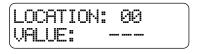
The hour to turn ON must be entered, in military format, for each day you selected. Each day has a corresponding location number.

<b>Location</b>	Day of the Week
3	hour on Sunday
5	hour on Monday
7	hour on Tuesday
9	hour on Wednesday
11	hour on Thursday
13	hour on Friday
15	hour on Saturday

#### NOTE

Steps 12 - 15 must be repeated for each day of the week you selected.

12. The Control Station will display:



Enter the location number from the chart above.

- 13. Press ENTER . The Control Station will display the current scheduled time.
- 14. Enter hour where 0 = midnight and 23 = 11:00 pm.
- 15. Press ENTER to save selection and return to the location prompt.

#### D. Minute To Turn ON Each Day

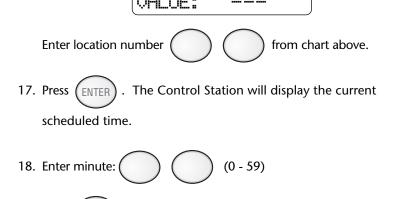
The minute to turn ON must be entered for each day you selected. Each day has a corresponding location number.

<b>Location</b>	Day of the Week
4	minute on Sunday
6	minute on Monday
8	minute on Tuesday
10	minute on Wednesday
12	minute on Thursday
14	minute on Friday
16	minute on Saturday

#### NOTE

Steps 16 - 19 must be repeated for each day of the week you selected.

16. The Control Station will display:



OCATION:

20. Press (CLEAR) to return to the ready mode.

19. Press (ENTER)

to save selection and return to the location prompt.

## **Programming the Latch Key Feature**

This feature allows you to monitor the entry of a designated person's passcode. The system will look for that passcode to be used on the selected day(s) during the programmed time frame. During that time frame, the Control Station will chime once a minute until that passcode is entered or the time frame has expired. The system will send a report if the passcode was not entered during the scheduled time on the scheduled day. Contact your Security Company Representative for more details.

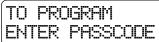
There are five items to be programmed:

- A. Setting the user passcode ID to be monitored
- B. Day(s) of week to monitor
- C. Time frame for the days that the user passcode must be entered
- D. Hour to monitor each day
- E. Minute to monitor each day

To program the Latch Key feature:

#### A. Setting the Latch Key User ID to be Monitored

1. Press 9 . The Control Station will display:



2. Enter passcode: ( ) ( )

The Control Station will display:

SELECT PROGRAM OPTION 1—8

3. Press 4. The Control Station will display:

LOCATION: 00 VALUE: ---

4. Press 1 (for location 1).





7. Press ENTER to save selection and return to the location prompt.

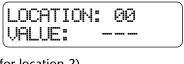
#### B. Day(s) of Week to Monitor

To select the day(s) of the week you want to be monitored, add together the values below for those days selected.

<u>Value</u>	Day of the Week
1	Sunday
2	Monday
4	Tuesday
8	Wednesday
16	Thursday
32	Friday
64	Saturday

**Example**: To set up monitoring for Monday, Wednesday, and Friday, add 2 + 8 + 32. Enter the value 42.

8. The Control Station will display:



Press 2 (for location 2).

- 9. Press (ENTER). The Control Station will display the current setting.
- 10. Enter new value (0 127)
- 11. Press (ENTER) to save selection and return to the location prompt.

#### C. Latch Key Time Window

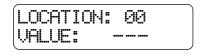
The latch key time window is the amount of time in minutes, before and after the scheduled time, that the selected user has to enter the designated passcode. The time frame may be from 0 minutes to 255 minutes.

#### NOTE

The Latch Key Time Window cannot cross over the midnight boundary.

**Example:** If the scheduled time is 3:00 pm and the time frame given to enter the passcode is from 2:30 pm until 3:30 pm, you need to enter a value of 30.

12. The Control Station will display:



Press (3) (for location 3).

- 13. Press ENTER. The Control Station will display the current scheduled time.
- 14. Enter value (0 255)
- 15. Press (ENTER) to save selection and return to the location prompt.

#### D. Hour To Be Monitored For Each Day

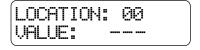
The monitoring hour must be entered, in military format, for each day you selected. Each day has a corresponding location number.

<b>Location Number</b>	Day of the Week
4	hour on Sunday
6	hour on Monday
8	hour on Tuesday
10	hour on Wednesday
12	hour on Thursday
14	hour on Friday
16	hour on Saturday

#### NOTE

Steps 16 - 19 must be repeated for each day of the week you selected.

16. The Control Station will display:



Enter location number from chart above.

- 17. Press ENTER . The Control Station will display the current scheduled time.
- 18. Enter hour where 0 = midnight and 23 = 11:00 pm.
- 19. Press ENTER to save selection and return to the location prompt.

#### E. Minute To Be Monitored For Each Day

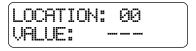
The monitoring minute must be entered for each day you selected. Each day has a corresponding location number.

Location Number	Day of the Week
5	minute on Sunday
7	minute on Monday
9	minute on Tuesday
11	minute on Wednesday
13	minute on Thursday
15	minute on Friday
17	minute on Saturday

#### NOTE

Steps 20 - 23 must be repeated for each day of the week you selected.

20. The Control Station will display:



Enter location number from chart above.

- 21. Press ENTER . The Control Station will display the current scheduled time.
- 22. Enter minute: (0 59).
- 23. Press ENTER to save selection and return to the location prompt.
- 24. Press (CLEAR) to return to the ready mode.

## **Programming the User Passcodes**

Your system may be programmed with up to 50 user passcodes. Consult your Security Company Representative as to which passcodes have been enabled and what Authority Level has been assigned to each one.

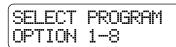
To program User Passcodes:





2. Enter passcode:

The Control Station will display:



3. Press (5) . The Control Station will display:



- 4. Enter the User Passcode ID (1 50) that you wish to program/change.
- 5. Press ENTER .
- 6. Enter new four-digit passcode

Repeat above steps for each passcode to be programmed or press CLEAR to return to the Ready mode.

If the new passcode being entered is a duplicate of an existing one, the Control Station will sound an error tone and return to the first digit location so you may try again.

If you wish to make a User ID passcode inoperable, enter "0000" as the new four digit passcode.

## **Cancelling the Automatic-ON for Today**

If your system is programmed to perform an Automatic-ON scheduled for today, you may cancel it *for today only* without changing your programmed schedule.

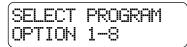
To cancel Automatic-ON for today:





2. Enter passcode:

The Control Station will display:



3. Press 6.

If Automatic-ON was programmed for today, the Control Station will display:



If Automatic-ON was <u>not</u> programmed for today, the Control Station will display:

NO AUTO ARM TO ABORT

## **Cancelling Exit-ON for Today**

If your system is programmed to automatically turn ON ten (10) minutes after you leave the premises with no other activity detected, you may cancel it *for today only*.

To cancel Exit-ON for today:





2. Enter passcode:

The Control Station will display:

3. Press 7

If Exit-ON was programmed for today, the Control Station will display:



## **Programming the Zone Names**

This feature allows you to program a name in for each zone location (i.e.: zone 1 is the Front Door).

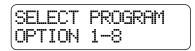
To program zone names:





2. Enter passcode:

The Control Station will display:



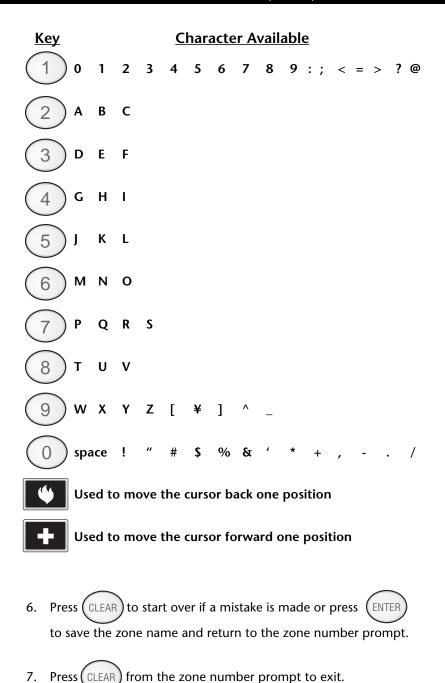
3. Press (8). The Control Station will display:



4. Enter zone number: . Press ENTER

(See Protection Zones for a list of zone numbers).

5. The Control Station will display the zone number selected on the first line and the zone name to be programmed on the second line. Press the key associated with each character listed on the next page to enter in the new zone name. Each keypress will change the display to the next character listed for that key. A maximum of 12 letters (includes spaces) may be used for each zone name.



## Multi-Area Operation (ZX400/ZX410/ZX440F only)

Your system may be configured with two separate areas of protection. For example, a duplex may have one system but have both halves set up as separate areas for protection. Or, you may have one system for your house and a storage building with each building set up as separate areas for protection. See your Security Company Representative for more details.

If you have access to both areas through a Control Station, the Control Station will prompt you to make an area selection for Area 1, Area 2, or both for any operation, test, or programming that is performed. When the Control Station is displaying the system status, it will alternate between the Primary and the Secondary area when the Secondary area is turned ON.

#### **Examples:**

If you press display:

then enter your passcode, the Control Station will

ENTER 1=AREA1 2=AREA2 3=BOTH

Your options are:

Press 1 for Area 1 Press 2 for Area 2 Press 3 for both areas.

If Area 1 is turned OFF and Area 2 is turned ON in the AWAY mode, the display will alternate between the Ready display for Area 1:

A1 READY TO ARM JAN 21 05:27:52

and the ON display for Area 2:

AREA 2 ARMED AWAY

## Common Area Operation (ZX400/ZX410/ZX440F only)

Your system may be configured with two separate areas of protection and a common area. For example, an office building with two separate offices and a common lobby. The lobby (or common area) only gets armed when both areas are armed in the AWAY mode. When one area is armed in the AWAY mode, the common area becomes an extension of the other area. When either area is disarmed, the common area also is disarmed. Faulted common area zones may be viewed on all Control Stations.

Arming and disarming operations are the same as previously described, except that when you arm an area in the AWAY mode, all common area zones may need to be secure. You cannot Force-Arm common area zones, but you may bypass them. You may exit or enter through the common area as long as one of the two areas is in Exit or Entry time countdown.

#### NOTE

Common Area is available in Rev 2.11 software and later revisions. Check software version label or control panel to determine revision level of software.

## Fire Detection

#### Introduction

Your system may include fire detection, depending on the options purchased and the local codes and regulations for your area. Fire alarm systems are always active and cannot be turned OFF. All fire systems require regular testing and maintenance. Common household dust buildup in smoke detectors can cause them to false alarm or fail in a time of need. Consult your Security Company Representative for a scheduled maintenance program.

All devices in a Fire Alarm system should be tested monthly except as described in NFPA 72. See Testing Your System - Walk Test for testing zones and Bell Test for testing the bell.

#### When an Alarm Occurs

When a Fire Alarm occurs, the bell sounds, the Control Stations produce the fire alarm tone and display a Fire Alarm message and/or display the zone that caused the alarm.

To silence the alarm, press the Off Cancel key and enter your passcode.

If you silence a Fire Alarm and the Control Station goes into Alarm Memory Mode (see Alarm Conditions - Alarm Memory), the alarm will be reported if your system is connected to a Central Station. If a false alarm occurs, notify the authorities immediately.

If you silence a Fire Alarm and the Control Station does not go into Alarm Memory mode, then the alarm was aborted and a Fire Trouble condition will be displayed. You have 255 seconds to reset the smoke detector (see *Resetting Smoke Detectors* below), otherwise the smoke detectors will reset automatically after 255 seconds have elapsed.

### NOTE

Your system may be equipped with Waterflow zones. If you press the Off Cancel key and enter your passcode to silence the alarm, but the alarm does not silence, then the alarm may be due to a Waterflow zone. In this case, you must press the '4' (RESET SMOKE) key and enter your passcode to silence the alarm.

For Fire Alarms that are not due to a Waterflow zone, you cannot reset smoke detectors while the alarm is sounding. You must silence the alarm with the Off Cancel key first.

## **Resetting Smoke Detectors**

Most smoke detectors "latch" in an alarm condition once they are triggered. If your Control Station displays a Bell Silenced condition or a trouble condition at the zone after you have silenced a Fire Alarm, you will need to reset the smoke detector. Press the RESET SMOKE key (7) and enter your passcode. The trouble condition should disappear in a couple of seconds. If the trouble condition does not clear after resetting the smoke detector, contact your Security Company Representative for service.

## **Developing An Evacuation Plan**

Preparation and education are of prime importance in the prevention of fire. An evacuation plan should be established **BEFORE** a severe situation arises. Your security system may or may not contain fire detection and notification equipment. Make sure your Security Company Representative fully explains the configuration of your system. Make sure you fully understand the limitations of your system.

Use the following steps in establishing an evacuation plan:

- Evaluate all possible escape routes from your home and draw a floor plan.
- 2. Select two exit escape routes from each room.
- 3. Provide escape ladders for rooms above the first floor. Check the ladders to be sure that they will reach the ground.
- 4. Draw a rough sketch of your escape plan so that everyone is familiar with it.
- 5. Practice your escape plan to assure that everybody knows what they have to do in a severe situation.
- 6. Establish a meeting place outside where your family is to report.
- 7. Advise the local fire authority if you have installed a fire alarm system.

Discuss the following with all residents:

- 1. Familiarity with alarm signals.
- 2. Status of bedroom doors.
- Testing of door during a fire and use of alternate escape routes if HOT to touch.
- 4. Crawling and holding breath techniques during a fire.
- 5. **ESCAPE FAST, DO NOT STOP** for packing.
- 6. Emphasize that no one is to return to a burning building.

### **Fire Prevention And Escape**

The purpose of heat and smoke detectors is to detect a fire in its earliest stages and sound an alarm, giving you more time to exit the premises before smoke reaches a dangerous level.

#### **Know Fire Hazards**

No detection device can protect life in all situations. Therefore, safeguards should be taken to avoid such potentially dangerous situations as smoking in bed, leaving children home alone, and cleaning with flammable liquids such as gasoline.

The best fire protection is minimizing fire hazards through proper storage of materials and good housekeeping practices. Careless use of combustible materials and electrical appliances overloading electrical outlets are major causes of fire. Explosive and fast burning materials must be eliminated from the home.

### In Case Of Fire

**Leave immediately!** Do not stop to pack or search for valuables. In heavy smoke, hold your breath and stay low - crawl if necessary. The clearest air usually is at the floor. If you have to go through a closed door, carefully feel the door and door knob to see if undue heat is present. If relatively cool, brace your foot against the bottom of the door with your hip against the middle, and one hand against the top edge. Open slightly. If there is a rush of hot air, slam the door quickly and latch it. Unvented fire will build up considerable pressure. Be sure that all members of the household realize this danger.

Use your neighbor's phone or street fire alarm box. The job of extinguishing the fire should be left to the professionals. Too many unforeseen things can occur when inexperienced people try to extinguish a fire.

## **Be Prepared**

Perform fire drills regularly. Use them to assure recognition of an alarm signal. For your protection, simulate different circumstances (smoke the hall, living room, etc.). Then have everyone react to the situation. Draw a floor plan and show two exits from each room. It is important that children be instructed carefully. Their tendency is to hide in a crisis.

It is imperative that one meeting place outside the home be established. You should insist that everyone meet there during an alarm. This will eliminate the tragedy of someone reentering the house for a missing member who is actually safe.

If you have small children and/or invalids residing in your household, you can help your fire department by placing decals on bedroom windows. Most fire departments supply the decals.

Become familiar with the distinctive sounds of your Fire alarm and Burglar alarm signals.

# Supervisory Alarm (ZX400/ZX410/ZX440F only) & Fire Trouble

If a trouble condition for a Fire zone is displayed on your keypad, consult your installer. A Fire Trouble condition results when a fire alarm is silenced and the smoke detector has not been reset, or the smoke detector is dirty and needs to be cleaned/serviced. A Fire Trouble also results when a Fire zone is bypassed.

If none of the above apply, the Fire Trouble may be due to a wiring problem and a service call may be required. A Supervisory Alarm condition indicates that the fire suppression system has been compromised.

## **Glossary**

**Alarm Memory:** A history of the alarms that occurred most recently.

**Bypass:** To temporarily remove a zone from operation.

**Control Station:** The remote station used to enter instructions to the control panel such as to arm, disarm and bypass. Also called a keypad.

**Display:** Shows the system status using LEDs or text display.

**Duress Code:** Special User passcode that, when entered, will send a silent alarm to your monitoring station.

**Entry Time:** Time permitted to enter the armed premises through a delay defined zone.

**Faulted:** A detection zone which is not secure, such as a protected door or window which has been left open causing the control to lose its "Ready" status.

**Force Arm:** To override. To force the system to arm when one or more zones are not ready.

**Indicator Lights:** The lights (LEDs) on the Control Station.

**Interior:** The backup or second line of defense. Consists of one or more zones that detect intruders that have already entered the building. Interior detection devices usually consist of motion detection devices, interior door contacts, and under carpet sensors designed to surprise the intruder.

Keypad: A generic term for the Control Station.

**Latch Key Supervision:** Monitors the entry of a passcode according to a schedule.

**Program:** To set the operating characteristics of the main system electronics such as the passcode which is used to turn the system ON or OFF.

**Ready:** The system is ready to be turned ON or OFF.

**Remote Programming:** The ability to service the system from a remote location (specified by your Security Company Representative) with the aid of a computer.

**Sensors:** Devices that detect violations and report such conditions to the control panel. Sensors include door and window contacts or any device used to inform the control of a particular condition.

**Supervisory/Trouble:** Your installer may have defined one or more of your control's zones for supervisory/trouble condition indication. (All Fire zones are automatically supervisory/trouble zones). If a wire breaks on supervisory/trouble Fire zone, the Control Station sounder will beep continuously to alert you of the problem.

**User Passcode:** A code which is used to perform operations on the system

**Zone:** The areas of protection represented by zone indicators.

# **System Reference Guide**

## **Emergency Numbers**

Police		Fire				
Neighbor		Docto	or			
Central Station		Servic	e Rep.			
Central Station Subscriber Nu	ımber					
<b>Delay Times</b>						
Seconds of <b>exit delay</b>	<b>time</b> for <i>i</i>	AWAY a	rms			
Seconds of exit delay	time for S	STAY an	ıd NIGI	HT arm	ıs	
Seconds of entry time	(Delay 1	) for Z	one(s)			
Seconds of entry time	(Delay 2	2) for Zo	one(s)_			
Seconds of <b>pre-alarm</b>	time					
Control Station Loc	ation					
12_			3			
45_			6	i		
Circle the Control Stat	ions tha	t have	the Pa	nic Ke	ys Ena	abled
Panic Key (Key "A") Enabled	1	2	3	4	5	6
Sound	-					
Panic Key (Key "B") Enabled	1	2	3	4	5	6
Sound	-					
Panic Key (Key "C") Enabled	1 1	2	3	4	5	6
Sound	-					

Passcode Attempts Before Control Station Lockout:			
NOTE  The lockout is a temporary measure that affects only the Control Station in use for the passcode attempts.			
Features Enabled			
Bypassing	☐ Exit-ON	☐ Hold Up	
Force-Arming	☐ Automatic-ON	☐ Auxiliary Alarm	
Double Press ON	☐ Keyswitch	User On Premise	

☐ Two Button ON ☐ Household Fire ☐ Intrusion

## **Protection Zones**

One or more sensing devices have been assigned by the installer of your alarm system to each of the various protection zones in your system (although not every zone may have been used). For example, the sensing device on your Entry/Exit door may have been assigned to zone 01, sensing devices on windows in the master bedroom to zone 02, and so on. For your convenience, a chart has been provided below which may be used to record the specific protection points that have been assigned to each zone in your system. Your installer will assist you in recording this information. Only zones 1-8 are available with the ZX200/ZX210.

Zone	Protection Point(s)	Zone	Protection Point(s)
01 .		16	
02		17	
03		18	
04		19	
05		20	
06		21	
07		22	
08		23	
09		24	
10		25	
11 .		26	
12		27	
13		28	
14		29	
15		30	

Notes			
_			

## **Owner's Insurance Premium Credit Requested**

This form should be completed and forwarded to your homeowner's insurance carrier for possible premium credit.

This control is UL Listed for: UL Grade A Household Burglary
UL Household Fire Warning System

A. General Information	า:		
Insured's Name and Address			
Insurance Co			
Policy No:			
Sentrol Security System			
Type of Alarm:	rglary 🔲 Fir	e 🗌 Both	
Installed by:			
Serviced by:			
B. Notifies (Insert B=B	Burglary, F=Fir	e)	
Local Sounding Device:	Police Dept	Fire De	pt.:
Central Station:	Name and Add	lress:	
C. Powered By:	A.C. With Re	chargeable Powe	er Supply
<b>D. Testing</b> ☐ Quarterly	☐ Monthly	☐ Weekly	Other

(Continued on Reverse)

E. Smoke Detector	r Locations	
Furnace Room	Kitchen	Bedrooms
Attic	Basement	Living Room
Dining Room	Hall	Other
F. Burglary Detect	ting Device Locations	s:
1st Floor windows	□ Basement door □ All Ext □ All Windows □ Interiongs, Including Skylights, Air	or Locations Other
G. Additional Pert	inent Information:	
Signature:		Date:

## **FCC Compliance**

#### Part 68 Notification

This equipment complies with Part 68 of the Federal Communications Commissions (FCC) rules. All connections to the telephone net work must be made through standard telephone company plugs and jacks, RJ31-X or equivalent, in such a manner as to allow for easy and immediate disconnection of the equipment. If the connection cord is unplugged from the jack, there shall be no interference to the telephone equipment still connected to the telephone network.

The FCC registration number and Ringer Equivalence Number (REN) can be found printed on the wiring connection label located inside the Control Box Enclosure. If requested, provide this information to your telephone encompany. The REN is useful to determine the quantity of devices that may be connected to your telephone line and still have all of this devices ring when your number is called. In most, but no all, areas, the sum of the RENs of all devices should not exceed five.

In the unlikely event that the equipment should ever fail to operate properly, it should be disconnected from the telephone jack to determine if the problem is with the telephone net work or with the equipment. If a problem is found with the equipment, leave it disconnected until it is repaired or replaced.

In the unlikely event that the equipment should ever cause harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will notify you in advance. However, if advance notice isn't practical, the telephone company may temporarily discontinue service without prior notification. In the case of temporary discontinuance, the telephone company shall promptly notify the telephone subscriber who will be given the opportunity to correct the situation. The customer also has the right to bring a complaint to the FCC if he feels the disconnection is not warranted.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.

You should notify the telephone company if this equipment is removed from the premises and the telephone jack is no longer needed.

The FCC prohibits the connection of this equipment to party lines and the use of this equipment in conjunction with coinoperated telephone service. An AC surge arrestor should be installed in the system's AC power outlet.

#### Part 15 Notification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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 the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or and experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

#### Canadian Notice

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee that the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations. Repairs to certified equipment should be made by and authorized Canadian maintenance facility designed by the supplier. Any repairs of alterations make by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

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

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

This equipment is a Class B Digital apparatus which complies with the radio interference regulations, CRC c. 1374.

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