How to Use Your Moose Security System
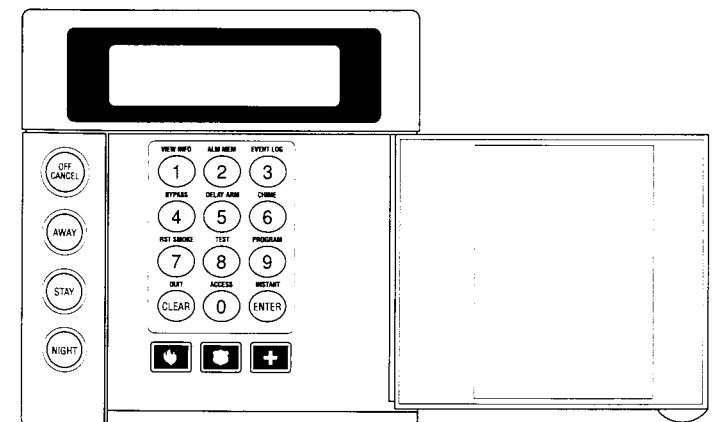
ZXLCD/ZXVFD

Control Station

MOOSE ◼

A PRODUCT OF SENTROL, INC

Thank you for choosing the ZX200/ZX210 or the ZX400/ZX410 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.).
6. 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 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 <u>less</u> than 4 minutes for residential fire and burglary and 15 minutes for commercial burglary.

Table of Contents

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
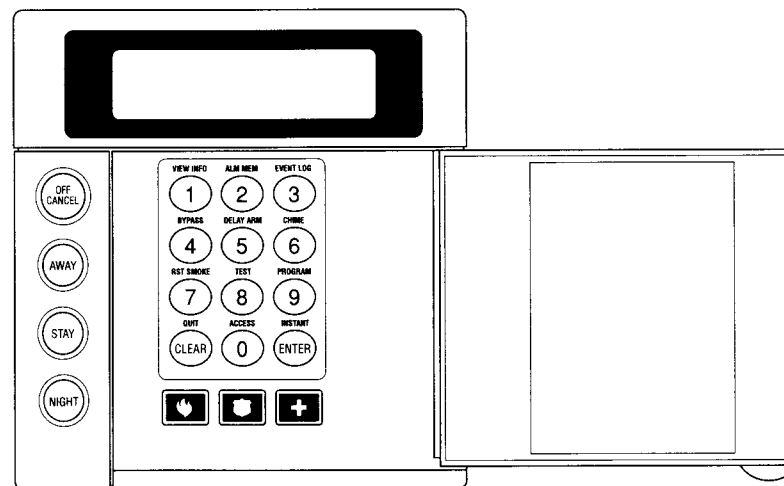
(ZXLCD and ZXVFD)

The Control Station Keys

(1) View Info Key
This key is used to view system information.

(2) Alarm Memory Key
Allows you to display the most recent zones where an alarm occurred.

(3) Event Log Key - *(ZX400/ZX410 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.

(5) Delay Arm Key - *(ZX400/ZX410 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.

(9) Program Key
Used to enter the programming mode.

(0) Access Key
Used to activate a door strike or other access output function.

(CLEAR) Quit Key
Used to reset any entry error and to allow you to exit out of an operation.

(ENTER) 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) Off Cancel Key
Used to turn OFF, silence, or cancel conditions.

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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.

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

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

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

Panic Keys
When enabled, these keys activate the auxiliary alarms (Fire, Police, Medical). Consult with your Security Company Representative for details.
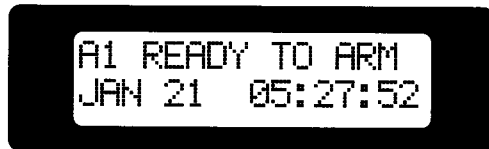
Fire	Police (Hold Up)	Medical (Auxiliary)

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The Control Station Display

```
READY TO ARM
```

ZX200/ZX210

```
A1 READY TO ARM
JAN 21   05:27:52
```
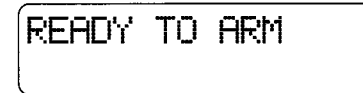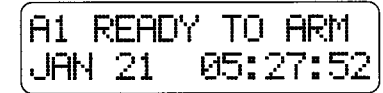
ZX400/ZX410

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.

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Turning Your System ON

1. Close all doors and windows.

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

```
READY TO ARM
```
ZX200/ZX210

```
A1 READY TO ARM
JAN 21   05:27:52
```
ZX400/ZX410

3. Press (AWAY), (STAY) or (NIGHT).

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

```
TO ARM AWAY
ENTER PASSCODE
```

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:

```
ARMED AWAY
```
ZX200/ZX210
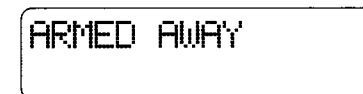
```
AREA 1
ARMED AWAY
```
ZX400/ZX410

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.

NOTE

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.

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Turning Your System OFF

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

```
TO TURN OFF
ENTER PASSCODE
```

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.

System Not Ready

1. 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

1. Press (AWAY) , (STAY) or (NIGHT) .

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

```
TO ARM AWAY
ENTER PASSCODE
```

NOTE

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

2. Enter passcode: ◯ ◯ ◯ ◯

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:

```
TO SET CHIME
ENTER PASSCODE
```

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 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:

(OFF CANCEL)   To scroll backwards through the event log

(1)   To scroll forward

(CLEAR)   To return to the Ready mode

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

Optional Features

Bypass - *(DO NOT 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 (**4**) . The Control Station will display:

```
TO BYPASS ZONES
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

   The Control Station will display:

```
ZONE __
```

3. Press (**9**)(**9**) to bypass *all* open zones, then press (ENTER).

   The Control Station will briefly display:

```
ZONE 99 - BYPASS
FAULTED ZONES
```

   then returns to the zone selection display:

```
ZONE __
```

4. Press (ENTER) to save changes or (CLEAR) to cancel any changes made.

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

```
BYPASSING
COMPLETE
```

before returning to the READY prompt.

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

1. Press (**4**) . The Control Station will display:

```
TO BYPASS ZONES
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

   The Control Station will display:

```
ZONE __
```

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.

```
ZONE __
```

   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:

```
BYPASSING
COMPLETE
```

Removing Bypass

1. Press (4) . The Control Station will display:

```
TO BYPASS ZONES
ENTER PASSCODE
```

2. Enter passcode: (·) ( ) ( ) ( )

   The Control Station will display:

```
ZONE __
```

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:

```
ZONE __
```

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
```

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Force-Arming - *(DO NOT 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.

1. Press (AWAY) , (STAY) or (NIGHT) .

   The Control Station will display selection:

```
TO ARM AWAY
ENTER PASSCODE
```

2. Enter passcode: ( ) ( ) ( ) ( )

   The Control Station will display:

```
CANNOT ARM
```

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

```
FORCE ARM AWAY
```
ZX200/ZX210

```
AREA 1
FORCE ARM AWAY
```
ZX400/ZX410

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.

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Exit-ON *(ZX400/ZX410 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

```
9 MIN 59 SEC
UNTIL AUTO ARM
```

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

Automatic-ON - *(DO NOT enable for UL Listed Systems)* *(ZX400/ZX410 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 Programming - Programming the Automatic-ON Feature and Cancelling Automatic-ON For Today.

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

To postpone the Automatic-ON for one hour **after** the audible warning begins:

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

```
TO DELAY ARM
ENTER PASSCODE
```

2.   Enter passcode: ◯ ◯ ◯ ◯

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

```
AUTO ARM DELAYED
```

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

```
NO AUTO ARM TO
DELAY
```

> **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 (**0**) . The Control Station will display:

```
FOR ACCESS
ENTER PASSCODE
```

2.   Enter passcode: ◯ ◯ ◯ ◯

Duress

To send a silent alarm signal:

1. Press (AWAY) , (STAY) , (NIGHT) , (OFF CANCEL) , or (0) .

2. Enter **Duress** Passcode: ○ ○ ○ ○

Panic Keys

[fire]	[police]	[medical]
Fire	Police (Hold Up)	Medical (Auxiliary)

To activate a panic key, you must press and hold the panic key for three (3) seconds. On the ZX400/ZX410, 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   *(ZX400/ZX410 only)*

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

Press (ENTER) then (1) to turn the Lamp Trigger OFF/ON.

Press (ENTER) then (2) to turn the Universal Output OFF/ON.

Press (ENTER) then (3) for quick access.

Press (ENTER) then (4) to turn an output OFF/ON (ex: room light).

Press (ENTER) then (5) to turn an output OFF/ON (ex: basement light).

Press (ENTER) then (6) to turn an output OFF/ON (ex: lamp or television).

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

(ENTER) (1) _____

(ENTER) (2) _____

(ENTER) (3) _____

(ENTER) (4) _____

(ENTER) (5) _____

(ENTER) (6) _____

Alarm Conditions

Alarm Memory

To view zones and keypads that caused an alarm:

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

> TO VIEW ALARMS
> ENTER PASSCODE

2. Enter passcode: ◯ ◯ ◯ ◯

The Control Station will display the alarm type and the source of alarm. The ZX400/ZX410 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.

Silencing Trouble

To silence the trouble sounder:

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

> TO TURN OFF
> ENTER PASSCODE

2. Enter passcode: ◯ ◯ ◯ ◯

After you silence the trouble sounder, the Control Station display will alternate between the system status and the trouble message.

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 only)*

Walk Test

To perform a walk test:

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

```
FOR TESTS
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

   The Control Station will display:

```
ENTER 1-5 TO
SELECT A TEST
```
ZX200/ZX210

```
ENTER 1-6 TO
SELECT A TEST
```
ZX400/ZX410

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 every 15 minutes.

To perform a battery test:

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

```
FOR TESTS
ENTER PASSCODE
```

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 battery trouble condition occurs, the Control Station will display:

```
LOW BATTERY
OFF TO SILENCE
```

Contact your Security Company Representative when this condition occurs.

Bell Test

To perform a bell test:

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

```
FOR TESTS
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

   The Control Station will display:

```
ENTER 1-6 TO
SELECT A TEST
```

3. Press (3) .

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

```
BELL TEST
```

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:

```
FOR TESTS
ENTER PASSCODE
```

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
```

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.
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:

1. Press (**9**) . The Control Station will display:

```
TO PROGRAM
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯ .

   The Control Station will display:

```
SELECT PROGRAM
OPTION 1-2
```

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)(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:

1. Press (CLEAR) + (ENTER) at the same time.

   The Control Station will display:

   ```
   ZONE 00
   SELECT ZONE ID
   ```

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.

Key	Character Available
(1)	0 1 2 3 4 5 6 7 8 9 : ; < = > ? @
(2)	A B C
(3)	D E F
(4)	G H I
(5)	J K L
(6)	M N O
(7)	P Q R S
(8)	T U V
(9)	W X Y Z [¥] ^ _
(0)	space ! " # $ % & ' * + , - . /

🔥 **Used to move the cursor back one position**

➕ **Used to move the cursor forward one position**

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 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:

1. Press (9) . The Control Station will display:

```
TO PROGRAM
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

   The Control Station will display:

```
SELECT PROGRAM
OPTION 1-8
```

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

```
10:53  02/04/97
ENTER = COMPLETE
```

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

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

   Press (1)(4)(1)(5) (2:15 pm)

   Press (0)(6)(1)(7)(9)(7) (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 Station 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** for AWAY, press **1** for STAY, or press **2** for NIGHT.

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

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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.

Value	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:

```
LOCATION: 00
VALUE:    ---
```

    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.

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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.

Location	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:

```
LOCATION: 00
VALUE:    ---
```

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.

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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.

Location	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:

```
LOCATION: 00
VALUE:    ---
```

Enter location number ⬭ ⬭ from chart above.

17. Press (ENTER) . The Control Station will display the current scheduled time.

18. Enter minute: ⬭ ⬭ (0 - 59)

19. Press (ENTER) to save selection and return to the location prompt.

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

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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**

A. Setting the Latch Key User ID to be Monitored

To program the Latch Key feature:

1. Press (9). The Control Station will display:

```
TO PROGRAM
ENTER PASSCODE
```

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).

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5. Press (ENTER) . The Control Station will display the current setting.

6. Enter User ID ◯ ◯ (0 - 50, where 0 disables Latch Key Monitoring).

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.

Value	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:

```
LOCATION: 00
VALUE:    ---
```

   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.

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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:

```
LOCATION: 00
VALUE:    ---
```

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.

Location Number	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:

```
LOCATION: 00
VALUE:    ---
```

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:

```
LOCATION: 00
VALUE:    ---
```

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.

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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:

1. Press (9) . The Control Station will display:

```
TO PROGRAM
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

The Control Station will display:

```
SELECT PROGRAM
OPTION 1-8
```

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

```
USER 00
SELECT USER ID
```

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.

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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:

1. Press (9) . The Control Station will display:

```
TO PROGRAM
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

The Control Station will display:

```
SELECT PROGRAM
OPTION 1-8
```

3. Press (6) .

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

```
AUTO ARM ABORTED
TODAY
```

If Automatic-ON was not 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:

1. Press (9) . The Control Station will display:

```
TO PROGRAM
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

The Control Station will display:

```
SELECT PROGRAM
OPTION 1-8
```

3. Press (7) .

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

```
EXIT ARM ABORTED
TODAY
```

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:

1. Press (9) . The Control Station will display:

```
TO PROGRAM
ENTER PASSCODE
```

2. Enter passcode: ◯ ◯ ◯ ◯

   The Control Station will display:

```
SELECT PROGRAM
OPTION 1-8
```

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

```
ZONE 00
SELECT ZONE ID
```

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.

Key	Character Available
(1)	0 1 2 3 4 5 6 7 8 9 : ; < = > ? @
(2)	A B C
(3)	D E F
(4)	G H I
(5)	J K L
(6)	M N O
(7)	P Q R S
(8)	T U V
(9)	W X Y Z [¥] ^ _
(0)	space ! " # $ % & ' * + , - . /

■ Used to move the cursor back one position

■ Used to move the cursor forward one position

6. 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.

7. Press (CLEAR) from the zone number prompt to exit.

Multi-Area Operation (ZX400/ZX410 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 (AWAY) then enter your passcode, the Control Station will display:

```
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
```

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.

Resetting Smoke Detectors

Most smoke detectors "latch" in an alarm condition once they are triggered. If your Control Station displays 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 on the zone in a couple of seconds. If the trouble condition does not clear after resetting the smoke detector, contact your Security Company Representative for service.

NOTE

You cannot reset smoke detectors while the alarm is sounding, you must silence the alarm first.

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:

1. 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.
3. 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.

Fire Supervisory (ZX400/ZX410 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 when the smoke detector has not been reset, or when 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 or a supervisory condition and a service call may be required.

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.

Index

System Reference Guide

Emergency Numbers

Police _____   Fire _____

Neighbor _____   Doctor _____

Central Station _____   Service Rep. _____

Central Station Subscriber Number _____

Delay Times

_____ Seconds of **exit delay time** for AWAY arms _____

_____ Seconds of **exit delay time** for STAY and NIGHT arms _____

_____ Seconds of **entry time (Delay 1)** for Zone(s) _____

_____ Seconds of **entry time (Delay 2)** for Zone(s) _____

_____ Seconds of **pre-alarm time** _____

Control Station Location

1 _____   2 _____   3 _____

4 _____   5 _____   6 _____

Circle the Control Stations that have the Panic Keys Enabled

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   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	_____

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

A. General Information:

Insured's Name and Address _____

_____

Insurance Co. _____

Policy No: _____

Moose Security System

Type of Alarm: ☐ Burglary ☐ Fire ☐ Both

Installed by: _____

Serviced by: _____

_____

B. Notifies (Insert B=Burglary, F=Fire)

Local Sounding Device: _____ Police Dept. _____ Fire Dept.:_____

Central Station: _____ Name and Address: _____

_____

_____

C. Powered By: _____ A.C. With Rechargeable Power Supply

D. Testing ☐ Quarterly ☐ Monthly ☐ Weekly ☐ Other

(Continued on Reverse)

E. Smoke Detector Locations

_____ Furnace Room   _____ Kitchen   _____ Bedrooms

_____ Attic   _____ Basement   _____ Living Room

_____ Dining Room   _____ Hall   _____ Other _____

F. Burglary Detecting Device Locations:

☐ Front Door   ☐ Basement door   ☐ All Exterior Doors   ☐ Rear Door

☐ 1st Floor windows   ☐ All Windows   ☐ Interior Locations   ☐ Other

☐ All Accessible Openings, Including Skylights, Air Conditioners and Vents

G. Additional Pertinent 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 company. 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 coin-operated 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 LOAD NUMBER (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all 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.