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Inside rear cover

Your installing company is,

Name: _____

Address: _____

Phone: _____

Your monitoring station is,

Name: _____

Phone: _____

1 INTRODUCTION

Congratulations on your selection of the DSC WLS900 Wireless Security System. The WLS900 Wireless Security System has been designed to provide you with a dependable and flexible security system that is easy to operate and maintain. The system uses radio signals to link its components together. Wireless technology allows for great flexibility in locating the system's components; only the controller and the sounders need to be located where they can be plugged into an electrical outlet.

Each of the system's components is designed to perform a specific function within the security system. The Keypad is the part of the system you will be using the most; it is used to arm and disarm the system, and to display messages about system operation. The keypad screen displays messages in plain language to tell you what the system is doing, and to guide you through system operation.

The Controller contains the electronics that control the security system. When an alarm is generated, the controller will activate the Sounder and will, if programmed to do so, contact your monitoring station to report the alarm. The controller can be located anywhere a telephone line connection and an electrical outlet is available. Along with its electrical transformer, the controller also has a rechargeable backup battery that will operate the system should there be a power failure.

The Sounder is used to alert you when an alarm has occurred. The sounder is also used to indicate with various sounds that certain system activities are being performed. The sounder should be located centrally so that it may be heard clearly when it is activated. The sounder requires an electrical outlet for its transformer.

Motion detectors are designed to detect the movements of an intruder. Motion detectors will generate an alarm if they detect motion when the system is armed. Care should be taken not to block the view of your motion detectors. If you can't see them they can't see the intruder. Your installer will tell you where motion detectors have been installed and what areas they protect.

Door or Window Sensors are used to indicate when a door has been opened. If a door or window sensor is activated when the system is armed, an alarm will sound. A sensor can also be set by your installer to have "entry/exit delays". These delays allow time for you to activate a sensor when entering or leaving the premises without causing an alarm. Your installer will tell you where door or window sensors have been installed, and which sensors have these delays.

Smoke Detectors sound an alarm when smoke from a fire is detected. The fire detection part of your security system is designed to provide you with an early warning of a possibly dangerous situation; your installer will explain to you how your fire detection system works and how it should be maintained. For more information write to the **NFPA, One Batterymarch Park, Quincy MA 02269**, to request more information about life safety devices and where they should be located.

Test Your System Regularly

To ensure that your system continues to function as intended, it is important that you test your system regularly. Refer to "Walk Testing Your System" in the Master Codes section of this manual, and read and follow the instructions carefully. If your system does not function properly or if you have any questions about testing your system, call your installer for service or assistance.

Important Notice

A security system cannot prevent emergencies. It is only intended to alert you of an emergency situation. Security systems are generally very reliable but they may not work under all conditions and they are not a substitute for prudent security practices or life and property insurance. Your security system should be installed and serviced by qualified security professionals who should inform you of the level of protection that has been provided, and instruct you on system operations.

2 USING THE KEYPAD

The Keypad is designed to make your system easy to use. Messages describing system status and operation are displayed on the Keypad screen in plain language, an easy to follow menu will guide you through all aspects of system operation. Operating the system is as easy as answering "Yes" or "No" to the questions presented on the Keypad's screen.

The Keypad's Inactive State

When the keypad is not being used, it will be in an inactive state to conserve its batteries. When inactive, the screen will be blank. Note that the keypad will automatically return to its inactive state after 30 seconds if no keys are pressed. To wake up the keypad and begin to operating the system, press the **#** key and then enter your personal Access Code.

Adjusting the Keypad Screen Contrast



Enter Access
Code...

With the keypad in its inactive state, press **#**. When this message is displayed, you may adjust the contrast of the screen display by pressing and holding the **▲** or **▼** Keys. Press and hold **▲** to increase the contrast, and **▼** to decrease the contrast. When adjusted as desired, enter your personal Access Code.

Using the Keys

The keys on the Keypad are used as described below:

Number Keys ① to ⑩ and ⑪ are used to enter Access Codes to arm and disarm the system. The Number Keys are also used to change Access Codes and set the Date and Time.

Arrow Keys **▲** and **▼** are used to answer "Yes" and "No" to questions displayed on the Keypad, and to display or select system options and functions. Use **▲** to answer "Yes", and **▼** to answer "No". The Arrow Keys are also used to move from one screen to another; moving from one screen to another is called "scrolling". Use the **▼** Key to "scroll" forward to the next screen, use the **▲** Key to select the option displayed on the screen.

Key The **#** Key is used to cancel an incorrect entry. For example, if you make a mistake while entering your Access Code, press **#** to clear the mistake, and then enter your Access Code again.

The **#** Key is also used to return to the beginning of a list of Menus. While scrolling through a list of options, press the **#** Key to return to the beginning of the list.

F Key To activate a **Fire Alarm***, press and hold the **F** Key for 2 seconds; this will activate a loud pulsing or loud steady alarm (your installer will inform you of how the alarm will sound). To silence an **F** Key alarm, enter your Access Code. If programmed by your installer, the alarm will be reported to your monitoring station.

A Key To activate an **Auxiliary Alarm***, press and hold the **A** Key for 2 seconds; this will activate a silent alarm (the Sounder will not be activated). If programmed by your installer, the alarm will be reported to your monitoring station. When the alarm has been reported to the monitoring station, the Sounder will sound several beeps.

P Key To activate a **Panic Alarm***, press and hold the **P** Key for 2 seconds. If programmed by your installer, this will send a report to your monitoring station. This alarm may be programmed as a silent alarm; your installer will inform you of whether or not the Sounder will be activated when the **P** Key is pressed. To silence a **P** Key alarm, enter your Access Code.

***May not be programmed if keypads are in a public place.**

3 ARMING THE SYSTEM

3A - Arming Levels;

The system is designed for simple and easy arming.

- “Disarmed”** - When the system is “Disarmed”, it is still providing protection with,
1. keypad emergency buttons, P, A, or F,
 2. smoke or fire detection devices,
 3. possibly 24-hour sensors for special cabinets, closets, drawers, etc.
- “Home”** - When the system is armed to “Home”, it allows you to move around freely without concerns but touching specific doors or windows may cause the system to sound.
- “Away”** - When the system is armed to “Away”, all protection is “Active”.
-



You cannot bypass smoke or fire devices.

Your system may be set up by your installer to arm in a mode other than the Away Mode or the Home Mode. If this is the case, your installer will provide instructions on how to arm your system, and how your system functions while armed.

3B - Arming the System in the Away Mode

The Keypad will normally be in an inactive state to conserve its batteries. Press  and the Keypad will wake up.

Enter Access
Code...

Enter your personal Access Code using the Number Keys. As each digit of the code is entered, an “X” will appear on the Keypad screen. If a mistake is made while entering the Access Code, press the  Key to clear the mistake and re-enter the Code.

System Ready
to Arm

If the system is ready to be armed, this message will be displayed for a few seconds, then the next message will be displayed. If the system is not ready to be armed the keypad will alert you of any conditions. See Section 5 of this manual for further discriptions.

Arm System
in Away Mode Y/N?

To arm the system in the Away Mode, press the -YES Key when this message is displayed. **If the system is armed in Away Mode, all zones will be active when the system is armed.**

System Armed
Exit Delay On

When the -YES Key is pressed, the Exit Delay will begin and this message will be displayed for a few seconds. With 30 seconds remaining in the Exit Delay, the Sounder will begin to “beep” once every second. During the last 10 seconds of the Exit Delay, the Sounder will “beep” twice every second. At the end of the Exit Delay, the Sounder will be silenced and the system will be armed.

3C - Improper Arming Warning

If a loud error tone sounds when you arm the system, re-enter your personal Access Code to silence the system. Check the keypad to see if a sensor, has been left open. Close the zone, and then re-arm the system.

The Improper Arming is designed to prevent false alarms by warning you when your system has been improperly armed. If a Zone, such as Door or Window Sensor, is left open when the system is armed, an error tone will sound. The error tone will sound for the duration of the Entry Delay time. If the system is not disarmed before the Delay expires, an alarm will be reported to your monitoring station.

3D - Arming the System in the Home Mode

The Keypad will normally be in an inactive state to conserve its batteries. Press **#** and the Keypad will wake up.

Enter Access
Code...

Enter your personal Access Code using the Number Keys. As each digit of the code is entered, an "X" will appear on the Keypad screen. If a mistake is made while entering your personal Access Code, press the **#** Key to clear the mistake and re-enter the Code again.

System Ready
to Arm

If the system is ready to be armed, this message will be displayed for a few seconds. After a few seconds, the next message will be displayed. If the system is, "**not ready to be armed**", or if there are conditions on the system of which you should be aware, other messages may be displayed; refer to Section 5 of this manual for further descriptions.

Arm System
in Away Mode Y/N?

To arm the system in the Away Mode, press the **△**- YES Key when this message is displayed. To display the next message or to arm the system in the Home Mode, press the **▽**-NO Key.

Arm System
in Home Mode Y/N?

To arm the system in the Home Mode, press the **△**- YES Key when this message is displayed. **If the system is armed in Home Mode, only some of the sensors in your system will be active when the system becomes armed.** This option is designed to allow you to remain on the premises while the system is armed. Zones that cover the interior of the premises will not cause an alarm if activated, but zones that cover most entry points, such as windows and doors, will sound an alarm if they are activated. Your installer will tell you which zones are automatically bypassed when the system is armed in the "**Home Mode**". When this message is displayed, press the **△**- YES Key to arm the system in the Home Mode. If you want to bypass zones, press the **▽**-NO Key.

Arm With
Entry Delay Y/N?

When the **△**- YES Key is pressed to arm the system in the "**Home Mode**", this message may be displayed. To arm the system and enable the Entry Delay, press the **△**- YES Key. With the Entry Delay turned on, activating an Entry/Exit Zone will start the Entry Delay. When the Entry Delay begins, a personal Access Code must be entered to disarm the system. To arm the system with the Entry Delay turned off, press the **▽**-NO Key. With the Entry Delay off, activating an entry zone will sound an alarm immediately.

System Armed
Exit Delay On

When the **△**- YES or **▽**-NO Keys are pressed, the Exit Delay will begin and this message will be displayed for a few seconds. With 30 seconds remaining in the Exit Delay, the Sounder will begin to "beep" once every second. During the last 10 seconds of the Exit Delay, the Sounder will "beep" twice every second. At the end of the Exit Delay, the Sounder will be silenced and the system will be armed. If you have not left the building, you must disarm and then re-arm the system.

4 DISARMING THE SYSTEM



If the system is in alarm when you arrive, do not enter the premises; an intruder may be present or a fire condition may exist. Go to a neighbor and contact the authorities from there. Only if you are absolutely certain that no danger exists should you proceed with disarming the system and entering the premises.

4A - Disarming the System During the Entry Delay

Enter the premises through your designated Entry/Exit door. The Sounder will start a steady tone to indicate that the Entry Delay has started. An alarm will sound if you do not disarm the system before the Entry Delay expires. The Keypad will be in its inactive state. Press **#** and the Keypad will display the next message.

Enter Access
Code...

Enter your personal Access Code using the Number Keys. As each digit of the code is entered, an "X" will appear on the Keypad screen. If a mistake is made while entering your personal Access Code, press the **#** Key to clear the mistake and re-enter the Code.

System Disarmed
No Alarm Memory

When your personal Access Code is entered, this message will be displayed to indicate that the system is disarmed and no alarms occurred while the system was armed. After a few seconds, the Keypad will return to its inactive state.

System Armed In
Home Mode

4B - Disarming the System from Away Mode or Home Mode

When your personal Access Code is entered, the Keypad will display a message similar to this to indicate the system is armed in either the Away or Home Modes. In this example, the system is armed in the "Home Mode". This message will be displayed for a few seconds.

With No
Entry Delay

If the system was armed with the Entry Delay shut off, this message will be displayed for a few seconds. After a few seconds, the next message will be displayed.

Disarm
System Y/N?

After indicating which Mode the system is in, the Keypad will ask if you wish to disarm the system. Press the **△**-YES Key to disarm the system.

System Disarmed
No Alarm Memory

If no alarms occurred while the system was armed, the Keypad will display this message to indicate that the system is disarmed. After a few seconds, the Keypad will return to its inactive state.

System Disarmed
Alarm in Memory

4C - Disarming the System with Alarms In Memory

This message will be displayed if an alarm occurred while the system was armed. This message will be displayed for a few seconds, then the next message will be displayed.

View Alarm
Memory Y/N?

If there are alarms in memory, this message will be displayed. Press the **▽**-NO Key to return the Keypad to its inactive state, or press the **△**-YES Key to view the Zones in Alarm Memory. When viewing Alarm Memory, use the **△**-YES Key to scroll through the list of zones that went into alarm.

ZONE 1
Continue Y/N?

When scrolling through the Alarm Memory Display, the screen will display messages like the one shown here. The Zone that went into alarm will be displayed, along with a message asking if you would like to view the next item in the list. Press the -YES Key to view the next Zone in Alarm Memory, or press the -NO Key to return the Keypad to its inactive state. When the last Zone in Alarm Memory has been displayed, pressing either the -YES or -NO Key will return the Keypad to its inactive state.

4D - Alarm Memory and Alarm History

Alarm Memory provides a record of Zones that went into alarm during the time the system was armed. The next time you arm the system, the Alarm Memory will be cleared and the events in Alarm Memory will be recorded in Alarm History. Any old events in Alarm History will be cleared when Alarm Memory is recorded as Alarm History.

Alarm History retains a record of Zones that appeared in Alarm Memory. When Alarm Memory is cleared, Alarm History will record the Zones that had been displayed as Alarm Memory. You can refer to Alarm Memory and Alarm History to determine if certain Zones repetitively sound alarms. Refer to "Viewing Alarm History" in the System Status Messages, Section 5J of this manual for information on viewing Alarm History.

ZONE 1
Continue Y/N?

When Alarm Memory and Alarm History are viewed, the Keypad will display the Zone Labels for the zones that went into alarm. The example here shows Zone 1 went into alarm. Press the -YES Key to view other zones that went into alarm.

ZONE [F]
Continue Y/N?

Alarms activated by pressing the ,  or  Keys on the Keypad will be indicated with messages similar to the one shown here.

4E - Quick Exit Feature

The Quick Exit feature is designed to allow you to exit the premises without sounding an alarm while the system is armed. This feature must be enabled by your installer before it may be used. Your installer will tell you if this feature has been enabled on your system.

System Armed
Home Mode

With the system armed, enter your personal Access Code. The Keypad will display a message similar to the one shown here.

Disarm
System Y/N?

When the Keypad displays this message, press the -NO Key. When you press the -NO Key, the next message will be displayed.

Quick Exit
from System Y/N?

Press the -YES Key to activate the Quick Exit feature. When Quick Exit is activated, you will be allowed up to two minutes to exit the premises. During the two minute period, you may exit the premises through the designated Entry/Exit door.



You may activate the Entry/Exit Zone only once; re-entering will start the Entry Delay.

5 SYSTEM STATUS MESSAGES

When arming your system, certain messages may be displayed on the Keypad after your personal Access Code has been entered. These messages are designed to inform you of conditions that may affect system operation. Messages will only appear if the conditions they indicate are present.

Sorry, System
Already In Use

5A - System In Use

While two Keypads may be installed on your system, only one Keypad may be used at a time. If one Keypad is presently being used, this message will be displayed if a key is pressed on the other Keypad.

Communication(s)
Successful

5B - Communications Successful

This message will be displayed when a personal Access Code is entered after the Controller has successfully communicated with the monitoring station. For example, if a personal Access Code is entered after an alarm has occurred and been reported to the monitoring station, this message will be displayed to indicate that the alarm has been reported.

Communication(s)
Cancelled

5C - Communications Cancelled

Zones on your system may be programmed with a "**communications reporting delay**" to cancel false alarms before they are reported to your monitoring station. Refer to the System Overview inside rear cover for more information. Your installer will indicate which Sensors, if any, have an Alarm Reporting Delay.

To cancel a false alarm, enter your personal Access Code when the alarm sounds. For example, if a sensor is accidentally activated, you can cancel the report to the monitoring station by entering your Access Code. The message shown here will be displayed.

The Communications Cancelled message will also be displayed when you disarm the system after an Improper Arming Warning has sounded.

Warning . . .
Fire Trouble

5D - Fire Troubles

This message will only be displayed if problems with a Fire Sensor are detected. "**A Fire Trouble**" may mean that a Fire Detector's batteries are running low, or that the detector may require service.

This message will be displayed, and then the next message will scroll onto the display.

View Fire
Trouble Y/N?

Press the -YES Key to view the list of Fire Troubles. Check the sensors indicated to ensure that their batteries are installed properly.



If you require assistance, or if Fire Troubles occur often, contact your installer immediately.

Warning...
Sensor Faults

5E - Sensor Faults

This message will only be displayed if **"Sensor Faults"** are detected. A Sensor Fault may mean that a Sensor's batteries are running low, or that the Sensor is unable to communicate with the Controller. This message will be displayed before scrolling to the next message.

View Sensor
Faults Y/N?

Press the -YES Key to view the list of **"Sensor Faults"**. Use the -YES Key to scroll through the list of Sensor Faults. Check the Sensors indicated to ensure that their batteries are installed properly. If you require assistance, or if Sensor Faults occur often, contact your installer.

Warning...
Tamper Faults

5F - Tamper Faults

This message will only be displayed if the system detects a Tamper condition. An open Tamper condition may indicate that a component has been removed from its normal location, or has been interfered with. This message will be displayed before scrolling to the next message.

View Tamper
Faults Y/N?

Press the -YES Key to view the list of **"Tamper Faults"**. Use the -YES Key to scroll through the list of Tamper Faults. When finished viewing the list of Tamper Faults, press the -NO Key. Check the components indicated to ensure that they are mounted properly. If you require assistance, contact your installer.

System Not
Ready

5G - System Not Ready

This message will only appear if the system is not ready to be armed because one or more zones are open. A zone is "open", if, for example, a protected Door or Window is improperly secured. Zones will be indicated as "open" if they have a Tamper or Sensor Fault. Refer to the Tamper Fault in Section 5F or Sensor Fault in Section 5E for information on viewing these conditions. This message will be displayed automatically.

View Open
Zones Y/N?

Press the -YES Key to view the list of Open Zones; press the -YES Key again to scroll through the list of Open Zones. When finished reviewing the list, press the -NO Key to return to the "View Open Zones Y/N?" message.

View Open
Zones Y/N?

With this message displayed, press the -NO Key to display the next message.

Bypass/Unbypass
Zones Y/N?

To bypass zones, press the -YES Key. To continue without bypassing zones, press the -NO Key. For instructions on bypassing zones, refer to Bypassing Zones, Section 6.

No Response
From Controller

5H - No Response From Controller

This message will be displayed if the Keypad is unable to communicate with the Controller. This message will be displayed and, then the Keypad will return to its inactive state. If the Keypad displays this message often:

- ensure the Controller's adaptor is properly connected and plugged in
- ensure the Keypad's batteries are not reporting "Low Battery" and are properly installed
- if you require assistance, contact your installer.

System Ready
to Arm

5I - System Ready

This message will be displayed when a personal Access Code is entered and the system is ready to be armed.

System Ready
Alarms in Memory

5J - Alarms in Memory

If there are alarms in memory, this message will be displayed before arming.

Arm System
in Away Mode Y/N?

When the Keypad displays this message allowing you to arm the system, press the -YES Key to arm the system, or press the -NO Key. To view alarms in memory, press the -NO Key until the next message is displayed.

View Alarm
Memory Y/N?

Press the -YES Key to view "alarm memory". Refer to Alarm Memory and Alarm History in Section 4D for instructions on reviewing alarms in memory.

System Ready
Bypass Active

5K - Bypassed Zones

This message will be displayed if zones on the system have been bypassed. Refer to Bypassing Zones in Section 6 for information on viewing bypassed zones.

System Ready
Trouble Present

5L - Trouble Present

A "trouble" is a condition that may cause the system to operate improperly; refer to the "Trouble Conditions" in Section 5M. When trouble conditions are reported, they should be investigated immediately. When a trouble condition is present, the Sounder will beep a warning. Enter your personal Access Code to silence the trouble indication. When your personal Access Code is entered, this message will be displayed.

Arm System
in Away Mode Y/N?

When the Keypad displays a message allowing you to arm the system, press the -YES Key to arm the system, or press the -NO Key. To view trouble conditions, press the -NO Key until the next message is displayed.

View System
Trouble Y/N?

Press the -YES Key to view trouble conditions on the system. Your system may be armed with trouble conditions present, but be aware that the system may not perform as expected with the troubles present. When viewing trouble conditions, press the -YES Key to scroll to the next trouble condition. When you are finished reviewing the list, press the -NO Key.

5M - Trouble Conditions

The system monitors itself automatically for trouble conditions. Your system may still be armed with a trouble condition present, but beware the system may not operate as expected. If you were unable to correct a trouble condition, contact your installer for assistance.

Trouble Display	Cause	What You Should Do
“Controller Batt”	“Controller Battery”. Low backup battery in the Controller	Call your installer for assistance
“Controller AC”	AC power supply to the Controller has been interrupted	Ensure Controller transformer is plugged in. If this does not correct the problem, call for service
“Sounder 1 AC Flt”	AC power supply to the First Sounder has been interrupted	Ensure Sounder’s transformer is plugged in to the wall outlet and the unit itself. If this does not correct the problem, call for service
“Sounder 2 AC Flt”	AC power supply to the Second Sounder has been interrupted	Ensure Sounder’s transformer is plugged in to the wall outlet and the unit itself. If this does not correct the problem, call for service
“Telephone Line”	Telephone line connection has been broken or disconnected	Ensure the telephone line is plugged into the Controller. If this does not correct the problem, call for service.
“Fail to Com”	“Failure to Communicate”. The Controller has been unable to call the monitoring station	Call your installer for assistance
“Loss of Clock”	Controller has lost both AC and battery power, and upon power up has a loss of clock (clock is reset)	Refer to Section 7A for instructions on resetting the clock. If this is not possible, call for service

5N - Sensor Low Battery

System Ready
Sensor Low Batt

This message will be displayed if sensors on the system report low batteries. This message will be displayed before allowing you to arm the system.

Arm System
in Away Mode Y/N?

When the Keypad displays a message allowing you to arm the system, press the -YES Key to arm the system, or press the -NO Key to view the list of sensors with low batteries.

View Sensor
Low Batt Y/N?

Press the -YES Key to view the list of sensors with low batteries. When viewing the list of Sensors with low batteries, press the -YES Key to scroll to the next Sensor. When you are finished reviewing the list, press the -NO Key. Your system may be armed when sensors report low batteries.



Sensors with “Low Battery” conditions may stop functioning while the system is armed.

Any Sensor that reports “Sensor Low Batt” should have its batteries replaced. Refer to “Replacing Batteries” in Section 9 for information on the types of batteries to use in each Sensor, and for instructions on how to install them.

6 BYPASSING ZONES

A “bypassed” sensor will not cause an alarm. Sensors may be bypassed to allow access to part of the premises while other sensors remain armed. For example, you could bypass the motion sensor protecting your living room, while the sensor protecting the Entry/Exit Door remains armed. Bypassed sensors will be automatically cleared the next time you disarm the system. Each time you want to arm the system with some of the sensors bypassed, follow the procedure below.



Bypassed sensors will not cause an alarm. Before arming the system with bypassed sensors, be sure to review the list of bypassed zones and ensure that all bypasses have been made intentionally.

Bypass/Unbypass
Zones Y/N?

This message will be displayed allowing you to bypass sensors, view previously bypassed sensors, or to clear sensors that are already bypassed. This message will be displayed as part of the arming procedure. When asked to arm the system, press the -NO Key until this message is displayed.

When this message is displayed, press the -YES Key to bypass sensors or to clear existing bypasses.

Zone 01
Bypass Y/N?

When the -YES Key is pressed, the Keypad will display a message similar to this one. To bypass the sensor, press the -YES Key. To display the next sensor, press the -NO Key.

Zone 01
Unbypass Y/N?

When the -YES Key is pressed, this message will be displayed. The sensor is now bypassed; to clear the bypass, press the -YES Key. To display the next sensor, press the -NO Key.

Zone 01
Bypass Y/N? OP

If a sensor is open while the system is in the Bypass Sensors mode, a message similar to this one will be displayed. Note that the “OP” indicates that the sensor is opened. Press the -YES Key to bypass the sensor, or press the -NO Key to display the next sensor.



Fire zone cannot be bypassed.

7 MASTER CODE FUNCTIONS

The Master Code is a unique personal Access Code that allows you to make changes to some of the programming features in your system. In addition to arming and disarming the system, the Master Code also allows you to:

- Set the Date and Time
- Enable and Disable the Door Chime Feature
- Add, Remove, and Change, Access Codes
- Replace System Components
- View Alarm History
- Perform a Walk Test of the System

Only the Master Code will allow you to change the functions listed above; normal Access Codes are not able to change system features. When scrolling through the list of Master Code Function Menus, you may press the **#** Key to return to the "System Ready" message.

To enter the Master Code Functions Mode, enter your master code and respond to each question until the screen goes blank.

```
MM/DD/YY HH:MM
Reset Clock Y/N
```

7A - Setting the Date and Time

Press the **△**-YES Key to reset the Date and Time, or press the **▽**-NO Key to display the next option. When the **△**-YES Key is pressed, the following message is displayed.

```
Enter [MM/DD/YY]
    [ _ / _ / _ ]
```

Using the Number Keys, enter the Date with 2 digits for the Month, 2 digits for the Day and 2 digits for the Year. For example, the date of March 4 1996 would be entered as 030496. If an error is made in entering the Date, press the **#** Key and the Keypad will display the "Reset Clock Y/N" message; press the **△**-YES Key and enter the correct Date. When the complete Date is entered, the next message will be displayed.

```
Enter Time [HH:MM]
    [ _ : _ ]
```

Using the Number Keys, enter the Time in using the 24-hour clock format. For example, the time 1:15 pm would be entered as 13:15. If an error is made in entering the time, press the **#** Key and the Keypad will display the "Reset Clock Y/N" message; press the **△**-YES Key and re-enter the correct Date and then the Time. After the Time is entered, the next message will be displayed.

```
03/04/96 13:15
Reset Clock Y/N?
```

The Date and Time you have just entered will be displayed on the screen; in this example, the Date is March 4 1996, and the Time is 1:15 pm. If a mistake has been made in entering the Date or Time, press the **△**-YES Key to re-enter the Date and Time as described above. If the Date and Time are correct, press the **▽**-NO Key to enter the next Master Code Function.

7B - Door Chime

When the Door Chime feature is enabled, activating certain sensors will cause the Sounder to beep several times. The Door Chime is a convenient feature that may be used to indicate that an out-of-sight door or window is being opened. Your installer will indicate which sensors on your system will work with the Door Chime feature. Note that the Door Chime only operates when the system is disarmed.

Turn Door
Chime On Y/N?

When this message is displayed, press the -YES Key to enable the Door Chime feature. When the Door Chime is enabled, the Sounder will beep when certain sensors are activated, and again upon closure.

Door Chime Has
Been Turned On

This message will be displayed when the Door Chime has been turned on.

Turn Door
Chime Off Y/N?

When this message is displayed, press the -YES Key to disable the Door Chime feature.

Door Chime Has
Been Turned Off

This message will be displayed when the Door Chime has been turned off.

7C - Changing Access Codes

Edit Access
Codes Y/N?

Press the  Key to "edit Access Codes", or press the -NO Key to display the next function. When the  Key is pressed, the next message will be displayed.

Unused Codes
- - - - 4 5 6 7 8 9

The screen will display which of the 10 personal Access Codes have been programmed. Codes that have already been programmed will be represented with a dash (-). In this example, Codes 0, 1, 2 and 3 have been programmed; while codes 4, 5, 6, 7, 8, and 9 have not yet been programmed.

Add/Edit
Codes Y/N?

Press the -YES Key to add a new code or change a code that has already been programmed. The Keypad will display the next message.

Select Access
Code 0 to 9

Select which of the 10 personal Access Codes, 0 to 9, that you wish to change or program by pressing that Number Key. In this example, Access Code 4 will be programmed. After pressing the  key, the Keypad will display the next message.

Enter Access
Code...

Enter the new Access Code using the Number Keys. As each digit is entered, an "X" will appear on the screen. If a mistake is made in entering the code, press the  Key to clear the entry, and enter the code again. After you have entered the new code, the Keypad will display which codes have been programmed.

Unused Codes
----- 5 6 7 8 9

The Keypad will again display which of the 10 personal Access Codes have been programmed. In this example, note that a dash now appears in place of Code 4 to indicate that it has been programmed.

Add/Edit Code
Y/N?

Press the -YES Key to add a new code or change a code that has already been programmed using the method just described. If the -NO Key is pressed, the following message will be displayed.

Erase Access
Codes Y/N?

Press the -YES Key to erase an Access Code. The Keypad will display the following message:

Select Access
Code 0 to 9

Enter the number of the personal Access Code you wish to erase using one of the Number Keys. That code will be erased, and the Keypad will again display which of the 10 Access Codes have been programmed. To leave the "Edit Access Code mode", press the -NO Key twice.



Code "0", the Master Code, can be changed but that it cannot be deleted.



If the Master Code is forgotten, contact your installer for assistance.

7D - Replacing System Components

At some time it may become necessary to replace a component on your system, such as a Door or Window Sensor, Motion Sensor, etc. This could be because a unit is malfunctioning in some way, or has been damaged through handling or tampering. You should only replace components on the advice of your installer. Along with the instructions here, your installer will tell you how to get to the "Replace System Components Screen".



While in the Component Replacement Mode, the system will not generate or report alarms for any zones or devices.

Replace System
Components Y/N?

When the Keypad displays this message, press the -YES Key to replace a component on the system or press the -NO Key to move to the next Master Code Function mode.

ZONE 4
Replace Y/N?

The Keypad will display the first component that may be replaced and ask if you wish to replace it. Press the -NO Key to display the next component, or press the -YES Key to replace the component displayed on the screen.

Remove Component
And Press Y Key

The Keypad will display this message and wait for two minutes for you to remove the component and press the -YES Key. When the -YES Key is pressed, the Sounder will beep and the next message will be displayed.

Enter New Comp
Serial # []

When this message is displayed, enter the new component's Serial Number on the Keypad. Each component's Serial Number is printed on the back of the component. If an error is made in entering the number, press the **#** Key and re-enter the number. When the Serial Number is entered, the next message will be displayed, now add Batteries to the new component.

Confirm Press [Y]
Serial # [12345]

Confirm that the Serial Number has been entered correctly by pressing the **△**-YES Key. If an error has been made in entering the Serial Number, press the **#** Key and re-enter the number.

Attach New Comp
To Backplate

When the **△**-YES Key is pressed, this message will be displayed and the Keypad will wait two minutes for you to attach the new component to its backplate. After the component is attached to its backplate, the next message will be displayed.

Replacement
Valid

If the component was replaced correctly, the Keypad will display this message and the Sounders will beep twice. You may now continue with other Master Code functions.

Mode Cancelled
As Requested

During the component replacement procedure, you may press the **#** Key to cancel the replacement procedure. When the **#** Key is pressed, this message will be displayed.

7E - Alarm History

Alarm History is a record of the last set of alarms that occurred on your system. You can use the **Alarm History** display to determine which sensors caused alarm. If unintentional alarms are a problem, you can use the **Alarm History** feature to help determine which sensors are the problem.

Remember that the **Alarm Memory** provides a record of which sensors caused alarms during the last armed period. Each time you arm the system, the **Alarm Memory** is cleared.

The **Alarm History** retains a record of sensors that appeared in the **Alarm Memory**. When **Alarm Memory** is cleared, **Alarm History** will record the sensors that had been in **Alarm Memory**.

View Alarm
History Y/N?

When this message is displayed, press the **△**-YES Key to view the list of sensors in Alarm History.

ZONE 1
Continue Y/N?

When the **△**-YES Key is pressed, the first sensor in Alarm History will be displayed with a message similar to the one shown here. Press the **△**-YES Key to display the next sensor in Alarm History, or press the **▽**-NO Key to cancel the display.

7F - Walk Testing Your System

It is important that you test your system regularly to ensure that it is operating properly. Your installer will instruct you on how to perform a thorough test of your system, and will also tell you how often to test your system.

A "Walk Test" is a simple procedure designed to make sure all Sensors on your system are working.

- Start the test from the Keypad as described here.
- Walk through the premises to activate Motion sensors.
- Open and close doors and windows to test Door or Window Sensors.
- Smoke Detectors are tested by removing the unit from its backplate and then replacing it.

Refer to the notes on the next page about **Testing the Motion Sensors** installed on your system.

When a Sensor is activated, the Sounder will sound a series of beeps.



While the system is in the Walk Test Mode, the Sensors will not generate alarms and systems will not be reported to the monitoring station. Because of this, be sure to cancel the Walk Test Mode when you have completed the test.

Only the **F**, **A** and **P** Keys remain active while the system is in the Walk Test Mode. If the **F**, **A** or **P** Keys are pressed while the system is in the Walk Test Mode, an alarm will be generated and reported to the monitoring station.

Initiate User
Walk Test Y/N?

When the Keypad displays this message, press the -YES Key to perform a Walk Test of your system, or press the -NO Key to return the Keypad to its inactive state.

Walk Test Active
Cancel Press [Y]

The Keypad will display this message for the duration of the walk test. When a Sensor is activated, the Sounder will sound a series of beeps.

Important: During a walk test, your system will not go into alarm, even when 24-Hour sensors are activated. When the walk test is complete, press the -YES Key and the Keypad will return to its inactive state.

Reviewing the Walk Test

As each Sensor is activated during the walk test, each activation will be recorded in the Alarm Memory. Review the Alarm Memory to ensure that each Sensor reported to the system when it was activated. Refer to "Alarms in Memory" in Section 5J for instructions on viewing the Alarm Memory.

Testing Motion Sensors

The motion sensors on your system are designed to require a 6 minute lockout after signaling the system of an activation. This means that they will only trip once and look for 6 minutes if no motion before they will activate again. This is done to conserve battery life.

Testing Motion Sensors is done in two steps:

- 1 Remove the Motion Sensor from its backplate (refer to Replacing Batteries in Section 9E for instructions on how to remove the Motion Sensor from its backplate). When the Motion Sensor is removed, the Sounder will beep. After the beep, replace the Motion Sensor on its backplate. This test ensures that the Motion Sensor is communicating properly with the System.

If you cancel the test without replacing all the Motion Sensors on their backplates, the Keypad will indicate that there are Tamper Faults on the system. Refer to "Tamper Faults" in Section 5F for instructions on reviewing tamper faults. If tamper faults are indicated after you finish the test, check all the Motion Sensors to be sure that they are mounted properly on their backplates.

- 2 When the Motion Sensor is replaced on its backplate, the detector will be in "test mode" for the next 90 seconds. During the 90-second test period, the detector's red light will come on each time the Motion Sensor detects motion. To test the sensor, walk around the perimeter of the room or area noting that the red light on the sensor keeps flashing on and off as you move.

After the test period has ended, the Motion Detector will automatically end its test mode and return to normal operation. (Later versions of Motion Sensors may stay in "test mode" for 3-4 minutes.)

Questions About Your Walk Test?

If you are ever unsure about testing your system, or if the Walk Test reveals that a Sensor is not working properly, contact your installer for assistance.



Motion Sensors are trap protection for rooms or areas. They are designed to break the room or area into small wedges of detection. The best detection occurs while crossing or moving across the sensors fingers of detection. Discuss your specific protection requirements with your installer to assure proper detection.

8 SOUNDER FUNCTIONS

The Sounder operates at several different levels to indicate: Intrusion Alarms, Fire Alarms and other system operations. Many of the sounds the Sounder can produce are programmable by your installer; your installer will inform you of which sounds have been programmed for which alarms. The possible alarms and indications from the Sounder are described below:

Event	Sound	Notes
Entry / Exit Delay	Exit Delay: pulsing beeps Entry Delay: steady tone Medium or low volume	Your installer will tell you if your Entry/Exit Delay Tone has been set for medium or low volume.
Trouble Conditions Sensor Faults Tamper Faults	Double "beep" at medium or low volume every 10 seconds	This tone is used to indicate that there is a trouble condition on the system. Refer to the Trouble Conditions, Sensor Faults and Tamper Faults Section 5 of this manual.
Fire Alarm	Loud pulsing alarm, or Loud steady alarm	Your installer will inform you of how the Fire Alarm will sound on your system
Intrusion Alarm	Loud steady or Loud pulsing alarm, or Silent	Your installer will inform you if any zones have been programmed to generate a silent alarm. Zones set for silent operation will not cause the Sounder to operate, but will transmit an alarm to your monitoring station if programmed to do so.
[F] Key	Loud pulsing alarm, or Loud steady alarm	To silence an [F] Key alarm, enter an personal Access Code
[A] Key	Silent alarm	When the [A] Key alarm is reported to your monitoring station, the Sounder will sound a series of beeps.
[P] Key	Silent or Audible alarm	To silence a [P] Key alarm, enter an personal Access Code.

9 REPLACING BATTERIES

From time to time, the batteries in the Sensors and other components on your system will need to be changed. Your Keypad will indicate when a Sensor's batteries need to be replaced; refer to Sensor Low Battery in Section 5N or Sensor Faults in Section 5E of this manual.

Under normal conditions, the batteries in your system should last up to three years. When batteries need to be replaced in a component, follow the instructions in this Section of the manual, being sure to note the proper orientation of the batteries as they are installed. Also, when batteries in one component need to be replaced, it is suggested that the batteries in all components be replaced at the same time.

The sounder batteries provide for short-term operation in the absence of AC power. After any prolonged AC power interruption(s), replacement of all sounder batteries may be required.

All of the batteries used in the security system are common size Eveready Alkaline Energizer batteries available anywhere batteries are sold.

Put your system into Walk Test before changing batteries in the sensors! This prevents false alarm signals from being transmitted to your central monitoring station. See Section 7F "Walk Testing your System".

9A - Tips for Buying Batteries

- **Your system is designed to work with Eveready Alkaline Energizer Batteries.** When replacing batteries, be sure to buy the same brand and type of batteries. Do not replace the batteries on your system with any other type. The reliability of your security system depends on its batteries, and "no name" or generic brand batteries may not provide the best quality and dependability.
- Use fresh batteries. Most batteries have a "best before" date printed on their packaging or on the batteries themselves. Buy batteries that have a "best before" date of two years or more from your purchase date.
- When disposing of used batteries, follow the instructions and precautions printed on the batteries. Many cities and communities have collection sites or services for used household batteries. Contact your municipal offices for information on the disposal of used batteries.
- If in doubt about the batteries used in your system, or if you have trouble installing them, contact your installer for assistance.

9B - Required Batteries

Required Eveready Alkaline Energizer Batteries

Door or Window Sensor

3 AAA batteries

Motion Detector

4 AAA batteries

Sounder

4 AA batteries

Keypad

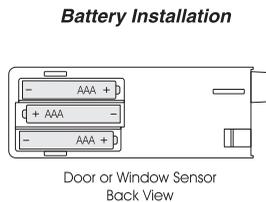
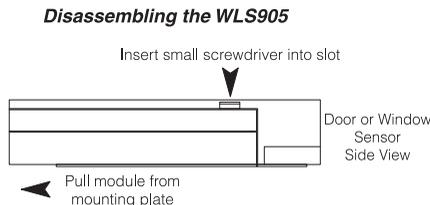
4 AA batteries

Smoke Detector

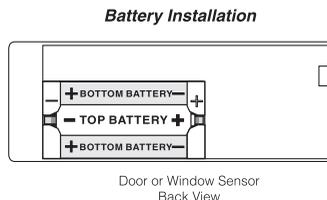
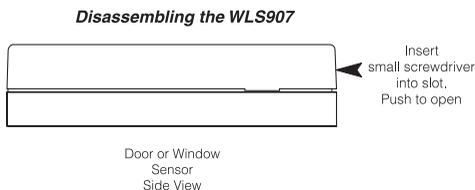
6 AA batteries

9C - Door or Window Sensor

WLS905: Insert a small screwdriver in the slot on the side of the Transmitter. Gently turn the screwdriver clockwise and pull the module to the left.



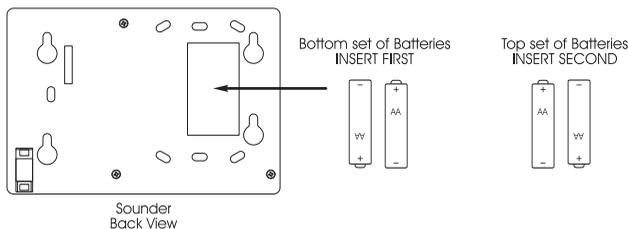
WLS907: Insert a small screwdriver into the slot on the side of the Sensor. Push the screwdriver in and lift off the cover.



Remove the batteries from the module, and install three fresh Eveready Alkaline Energizer AAA batteries. Be sure to insert the batteries in the proper orientation. Re-assemble the Sensor.

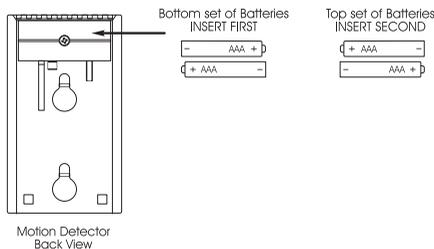
9D - Sounder

Remove the Sounder from its backplate. Pull the bottom of the Sounder slightly away from the wall and push up. Remove the batteries from the Sounder and install four fresh Eveready Alkaline Energizer AA batteries. Be sure to insert the batteries in the proper orientation. Replace the Sounder on its mounting plate, making sure it snaps into place. Be sure that the sounder transformer is properly connected after the batteries are installed (since the batteries will be automatically powering the sounder whenever AC power is disconnected).



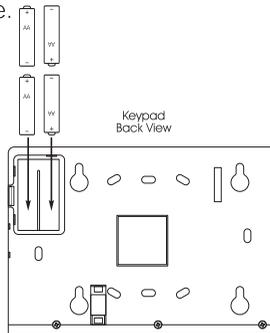
9E - Motion Detector

Remove the Motion Detector from its mounting plate by holding the Sensor by its sides and pushing up. Remove the batteries from the Sensor and install four fresh Eveready Alkaline Energizer AAA batteries. Be sure to insert the batteries in the proper orientation. Replace the Sensor on its mounting plate, making sure it snaps into place.



9F - Keypad

Remove the Keypad from its backplate. Pull the bottom of the Keypad slightly away from the wall and push up. Open the battery cover and remove the batteries. Install four fresh Eveready Alkaline Energizer AA batteries. Be sure to insert the batteries in the proper orientation. Replace the Keypad on its mounting plate, making sure it snaps into place.



9G - Smoke Detector

Remove the mounting plate from the detector by pushing the locking tab and turning the mounting plate counter-clockwise.



Hold the unit with the battery compartment facing you, and the imprinted wording right-side up. Install the first two batteries in the row nearest to you, with the + terminals facing left. Next, install the middle two batteries with the + terminals facing to the right. Place your thumb over the centre of these four batteries to keep them in place. Install the last two batteries, with their + terminals facing to the left, by snapping them past the nylon retainer.



The smoke detector is designed to use Eveready Energizer Alkaline Batteries. Do not use other brands of batteries with the smoke detector. Using brands other than the Eveready Energizer will void UL and ULC approvals, and may affect the system's operation.

9H - After Installing New Batteries

Refer to Section 5 of this manual for information on displaying Sensor Faults and Tamper Faults on the Keypad screen. A Tamper Fault should be displayed for each Sensor that was removed from its backplate when its batteries were changed; a Sensor Fault may also be displayed for these Sensors.



Be sure to perform a walk test of your system after new batteries are installed to ensure that all Sensors are working properly.

Replacing the batteries and performing the walk test will also clear any Low Battery, Sensor Fault, and Tamper Fault indications from the Keypad.

FIRE SAFETY IN THE HOME

Most fires occur in the home, to minimize this danger it is recommended that a household fire safety audit be conducted and a family escape plan be developed.

Household Fire Safety

Check your home for the following potential hazards:

- Are all electrical appliances and outlets in a safe condition? Check for frayed cords, over-loaded lighting circuits, and so on. If you are uncertain about the condition of your electrical appliances or household electrical service, have a professional evaluation.
- Are all flammable liquids stored safely in closed containers in a well ventilated and cool area? Cleaning with flammable liquids, such as gasoline, should be avoided. Refer to product instructions, printed warnings and labels for information on using and storing hazardous materials safely.
- Are fire hazardous materials (such as matches) well out of the reach of children?
- Are furnaces and wood burning appliances properly installed, clean, and in good working order? If in doubt, have a professional evaluation.

Family Escape Planning

There is often very little time between the detection of a fire and the time at which it becomes deadly. Because of this, it is very important that a family escape plan be developed, practised and followed.

- 1** Every family member should participate in developing the escape plan.
- 2** Study the possible escape routes from each location within the house. Since many fires occur at night, special attention should be given to the escape routes from sleeping quarters.
- 3** It is essential that escape from a bedroom be possible without opening the interior door. Consider the following when making your escape plans:
 - Make sure that doors and windows that open to the outside are easily opened. Ensure that they are not painted shut and that their locking mechanisms operate smoothly.
 - If opening an exit or using an exit is too difficult for children, the elderly or handicapped, plans for rescue should be developed. This includes making sure that those who are to perform the rescue can promptly hear the fire warning signal.
 - If the exit is above ground level, an approved fire ladder or rope should be provided, as well as training in its use.
 - Exits on the ground level should be kept clear. Be sure to remove snow from exterior patio doors in winter. Outdoor furniture or equipment should not block exits.
 - The family should have a predetermined meeting place where everyone can be accounted for; for example, across the street or at a neighbour's house.
 - Once everyone is out of the house, call the Fire Department.
 - A good plan emphasizes quick escape. Do not investigate first or attempt to fight the fire, do not attempt to rescue belongings as this takes up valuable time. Once outside, do not re-enter the house. Wait for the fire department.
 - Write the plan down and rehearse frequently, so that should an emergency arise, everyone will know what they are to do. Revise the plan as conditions change; for example, when there are more or fewer family members in the home, or if there are physical changes to the house.
 - Make sure your alarm system is operational by conducting weekly tests as noted in this manual. If you are unsure about system operation, contact your installer.
 - It is recommended that you contact your local fire department and request further information on home fire safety and escape planning. If available, have your local fire prevention officer conduct an in-house fire safety inspection.
 - For more information contact NFPA Standard 72 - National Fire Protection Association, One Batterymarch Park, Quincy MA 02269

SYSTEM OVERVIEW

Protected Areas

Sensor	Area / Location	Sensor Type	Reporting Delay
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____
9	_____	_____	_____
10	_____	_____	_____
Keypad 1	_____		
Keypad 2	_____		
Sounder 1	_____		
Sounder 2	_____		

Access Codes

Code	Programmed 4-Digit Code	Person Using Code <i>Master Code</i>
0	_____	
1	_____	_____
2	_____	_____
3	_____	_____
4	_____	_____
5	_____	_____
6	_____	_____
7	_____	_____
8	_____	_____
9	_____	_____

Sounder Operation

- F** Key: Loud pulsed tone Loud steady tone
- A** Key: Silent
- P** Key: Audible Alarm Silent Alarm

Entry Delay

You have _____ seconds to disarm the system when entering the premises. ***If you do not disarm the system within this time, an alarm will sound!*** If an alarm sounds, enter your personal Access Code.

Exit Delay

You have _____ seconds to leave the premises after arming the system. ***If you do not leave the premises within this time, an alarm will sound!*** If an alarm sounds, enter your personal Access Code.

WARNING Please Read Carefully

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

■ **Inadequate Installation**

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

■ **Criminal Knowledge**

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

■ **Access by Intruders**

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

■ **Power Failure**

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

■ **Failure of Replaceable Batteries**

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

■ **Compromise of Radio Frequency (Wireless) Devices**

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

■ **System Users**

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

■ **Smoke Detectors**

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

■ **Motion Detectors**

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting and so on.

■ **Warning Devices**

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

■ **Telephone Lines**

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

■ **Insufficient Time**

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

■ **Component Failure**

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

■ **Inadequate Testing**

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

■ **Security and Insurance**

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. Industry Canada does not guarantee 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. 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 an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

User 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.

NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Number of all the devices does not exceed 5.

The REN of this unit is 0.1B.

AVIS: L'étiquette de l'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme à certaines normes de protection, d'exploitation et de sécurité des réseaux de télécommunications. Industrie Canada n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêchent pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être effectuées par un centre d'entretien canadien autorisé désigné par le fournisseur. La compagnie de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, les lignes téléphoniques et les canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

AVERTISSEMENT: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas.

AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

L'indice d'équivalence de la sonnerie (IES) de ce produit est 0.1B.

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Ce dispositif satisfait aux exigences d'Industrie Canada, prescrites dans le document CNR-210. son utilisation est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

• W A R N I N G •

This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.



WLS900

Wireless Security System

LIMITED WARRANTY

Digital Security Controls Ltd. warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls Ltd. shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original owner must promptly notify Digital Security Controls Ltd. in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls Ltd. shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls Ltd. must first obtain an authorization number. Digital Security Controls Ltd. will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls Ltd. such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls Ltd.);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Digital Security Controls Ltd.'s liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls Ltd. be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) And of all other obligations or liabilities on the part of Digital Security Controls Ltd. Digital Security Controls Ltd. neither assumes nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

Digital Security Controls Ltd. will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls Ltd. must first obtain an authorization number. Digital Security Controls Ltd. will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls Ltd. determines to be repairable will be repaired and returned. A set fee which Digital Security Controls Ltd. has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls Ltd. determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by Digital Security Controls Ltd. could void your authority to use this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4

Important Information

This equipment complies with Part 68 of the FCC Rules. On the side of this equipment is a label that contains, among other information, the FCC registration number of this equipment.

Notification to Telephone Company

Upon request, the customer shall notify the telephone company of the particular line to which the connection will be made, and provide the FCC registration number and the ringer equivalence of the protective circuit.

FCC Registration Number: F53CAN-74834-AL-E

Ringer Equivalence Number: 0.1B

USOC Jack: RJ-31X or RJ-38X

Telephone Connection Requirements

Except for the telephone company provided ringers, all connections to the telephone network shall be made through standard plugs and telephone company provided jacks, or equivalent, in such a manner as to allow for easy, immediate disconnection of the terminal equipment. Standard jacks shall be so arranged that, if the plug connected thereto is withdrawn, no interference to the operation of the equipment at the customer's premises which remains connected to the telephone network shall occur by reason of such withdrawal.

Incidence of Harm

Should terminal equipment or protective circuitry cause harm to the telephone network, the telephone company shall, where practicable, notify the customer that temporary disconnection of service may be required; however, where prior notice is not practicable, the telephone company may temporarily discontinue service if such action is deemed reasonable in the circumstances. In the case of such temporary discontinuance, the telephone company shall promptly notify the customer and will be given the opportunity to correct the situation.

Additional Telephone Company Information

The security Controller must be properly connected to the telephone line with a USOC RJ-31X or RJ-38X telephone jack and a matching 8 pin modular "Direct Connect Cord".

The FCC prohibits customer-provided terminal equipment be connected to party lines or to be used in conjunction with coin telephone service. Inter-connect rules may vary from state to state.

Changes in Telephone Company Equipment of Facilities

The telephone company may make changes in its communications facilities, equipment, operations or procedures, where such actions are reasonably required and proper in its business. Should any such changes render the customer's terminal equipment incompatible with the telephone company facilities the customer shall be given adequate notice to the effect modifications to maintain uninterrupted service.

Ringer Equivalence Number (REN)

The REN is useful to determine the quantity of devices that you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the RENs of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company.

Equipment Maintenance Facility

If you experience trouble with this telephone equipment, please contact the facility indicated below for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

Digital Security Controls Ltd
160 Washburn Street
Lockport, New York, 14094