

DIRECTED[®]

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of nearly 100 patents and Innovations Awards in the field of advanced electronic technology. Quality Directed products are sold and serviced throughout North America and around the world.

Call **(800) 274-0200** for more information about our products and services.

© 2012 Directed. All rights reserved.

G3303A 2012-12

Vehicle Security System



The Finest In Security And Convenience For Your Vehicle.

Vista, CA 92081

www.automatecarsecurity.com

Directed is committed to delivering world-class quality products and services that excite and delight our customers.

OWNERS' GUIDE

MODEL
3303A

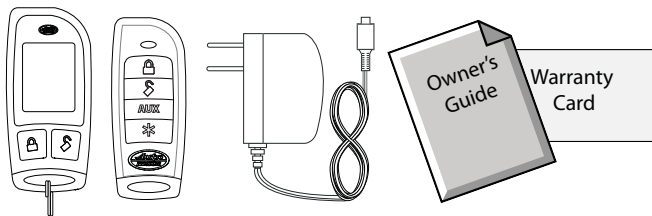
Congratulations

Congratulations on the purchase of your state-of-the-art security system. Reading this Owner's Guide prior to using your system will help maximize the use of your system and its many features. Please visit: www.automatecarsecurity.com – For general and additional guide information. For any additional questions please contact your authorized Directed dealer or contact Directed at **1-800-753-0600** (U.S. only). Additional support is also available at: <http://support.directed.com>.

What you get

Welcome to the best generation of vehicle security. Your system contains everything you need.

- Responder LSC remote control
- 1-way companion remote control
- AC adapter for charging your remote control
- Quick reference owner's guide and Warranty card



Important information

Government Regulations and Safety information



Read the *Government Regulations* and *Warning! Safety First* sections of this manual prior to operating this system.

Warning! Failure to heed this information can result in death, personal injury or property damage and may also result in the illegal use of the system beyond its intended purpose.

Your Warranty

Your system comes with a warranty. Make sure you receive the warranty registration card and proof of purchase from your dealer indicating the product was installed by an authorized Directed dealer. Please validate it online at www.prodregister.com/automate or complete and return the warranty registration card.

Replacement Remote Controls

If additional remote controls are desired, please see your authorized dealer or visit us at www.directedstore.com to order. Part numbers are: 7351A for the LSC 2-way remote control and 7143A for the 1-way companion remote control.

Contents

Getting Started.....	3
Charging the Remote Control	3
Keys to using this Manual	4
Responder LSC 2-Way.....	5
Status Screen Icons.....	7
Using your System.....	10
Commands and Confirmations	10
Performing Commands	10
Responder LSC Command table	11
Basic Commands (Direct Access)	12
Arm	12
Disarm	12
AUX/Trunk.....	13
Remote Start /AUX 1/ AUX 4	13
Advanced Commands: (Level 1)	14
Silent Arm.....	14
AUX 1	14
Advanced Commands: (Level 2)	15
Sensor Bypass	15
Remote Valet	15
AUX 2	15
Advanced Commands: (Level 3)	16
Sensor Silent Arm	16
AUX 3	16
Alarm Report.....	16
Advanced Commands: (Level 4)	17
Full Silent Arm	17
AUX 4	17
Responder LSC Configuration.....	18
Navigating Menus and Options	18
Button Operation	18
Access Menu Items	18
Main Menu	19
Setup Remote Menu:	19
Remote Start Info	20
Runtime Alert.....	20
Car 2	21
BackLight.....	21
Temp Unit	21
Button Beep.....	21
System Type.....	21
Clock Set.....	22
Review	22

Exit	22
Sensor Adjust:	22
Pair a Responder LSC remote control:.....	22
Demo Mode:.....	24
Power Off:.....	24
Exit:	24
Alarm Features	25
Normal Arm Protection	25
Sensor Silent Arm Protection.....	25
Full Silent Arm Protection	26
Sensor Warn-away Messages	26
Full Trigger Messages.....	26
Emergency Override	26
Trigger Zone Fault Report.....	27
Alarm Report when Disarming.....	27
Alarm Report when Requested.....	28
Nuisance Prevention (NPC).....	28
Remote and System Operations.....	29
Passive Arming.....	29
Auto Re-arming.....	29
Valet Mode	30
Power Save.....	30
Rapid Resume	30
Automatic Remote Updates	30
Out of Range	31
No Remote Output.....	31
Car Select.....	31
Vehicle Recovery System (VRS)	32
1-way Companion Remote Control.....	33
Accessing Commands	34
Pairing a 1-way remote control	35
System Expansion Options	37
Battery Information (Responder LSC).....	39
Low Battery.....	39
Low Battery Alerts	40
Battery Life.....	40
Battery Information (1-way)	41
Battery Disposal	41
Glossary of Terms.....	42
Patent Information	43
Government Regulations	44
Additional information.....	45
Interference.....	45
Upgrades and Batteries	45
Water/Heat Resistance	45
Limited lifetime consumer warranty	46

Getting Started

Your remote control is powered by an internal rechargeable battery that can only be serviced by an authorized Directed dealer. Due to transit and storage time prior to your purchase, the battery charge may have depleted. To ensure proper operation, check the battery level and connect the battery charger if not fully charged. See *Battery Information* and *Status Screen Icons* sections for more information about the battery.

Charging the Remote Control

1. Plug the AC adapter into a 110V AC outlet. Insert the mini-USB connector into the mini-USB port located on the side of the remote control (see diagram under *Responder LSC 2-way*). The text field will display **CHARGE** to indicate the remote control is charging (The remote remains operational while charging and can command the system).
2. Once fully charged the text field will display **FULL**.
3. The remote control is then ready for use. Disconnect the mini-USB end from the remote control first and then the AC adapter from the AC outlet.

Note

The remote control remains operational while charging and can command the system.

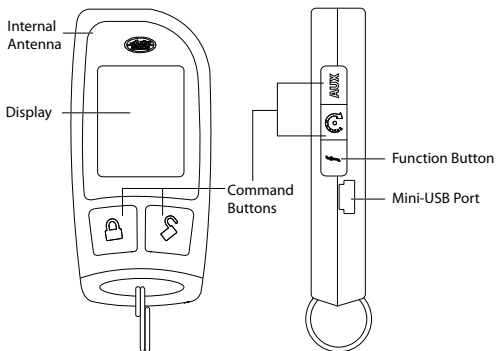
If the battery is excessively depleted when the charger is connected, functionality may be delayed while it charges to the minimum voltage required to operate the display, after which normal charging resumes.

Keys to using this Manual

Specific actions (in bold type) and style conventions are used consistently throughout this manual, they are as follows:

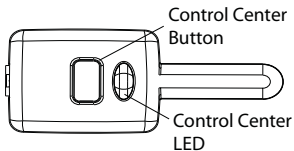
- **Press:** implies pushing in and releasing a button.
- **Hold:** is used after “press” actions when a button needs to be held in position for an extended period of time, typically several seconds.
- **ARMED** this style denotes the text which appears in the text field portion of the display during operations described in the manual. If the text string is too long for the text field, it then plays and loops sequentially word by word.
- *Italicized* words denote section/sub headings in this guide and can be located through the table of contents.
- An asterisk (*) when used after a word or phrase denotes that additional details can be found in related sections usually noted at the bottom of the page or end of the section.

Responder LSC 2-Way



Feature	Description
Internal Antenna	Used for transmitting and receiving information
Display	Status screen - the upper portion of the display contains status icons for the system, siren, alarm zones, and remote control Text field - the lower portion of display shows the clock, command confirmations, page messages and programming menus
Command Buttons (4)	Used to perform arming, disarming and auxiliary channel commands
Function Button	Used to access function levels for commands, configuration menus for programming, and car selection
Mini-USB Port	The battery charger plugs into this port

Control Center



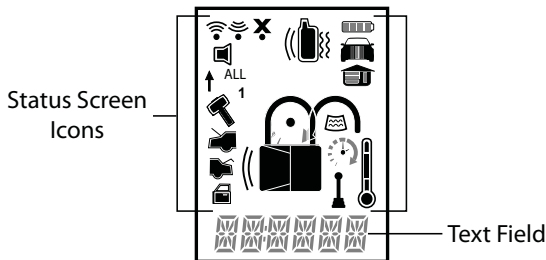
The control center, typically located on the upper part of the front windshield sends and receives commands or messages to and from your system. It consists of:

- The In-vehicle system antenna, for 2 way communication.
- The control center LED, as a visual indicator of the system's status.
- The control center button, for placing the system into valet mode* and to perform the emergency override** operation.

* See "Remote and System Operations" on page 29.

















** See "Alarm Features" on page 25.


Status Screen Icons



The table below describes all the status screen icons.

	Icon	Description
System Status		Armed: The system is armed, the alarm is enabled
		Locked: The system is locked in valet, the alarm is disabled
		Disarmed: The system is disarmed, the alarm is disabled
		Unlocked: The system is unlocked in valet, the alarm is disabled
Siren Status		Siren is disabled for sensor triggers; remote is paged for all triggers (sensor silent arm)
		Siren is disabled for all triggers; remote is paged for all triggers (full silent arm)
Zone Status		On during warn-away and full trigger message output
		On during trunk zone full trigger output and aux/trunk channel activation
		On during fault report to indicate the trunk is open and bypassed when arming

	Icon	Description
Zone Status		On during a sensor zone full trigger output
		On during fault report to indicate a sensor is active and bypassed when arming
		On during the door zone full trigger output
		On during fault report to indicate a door is open and bypassed when arming
		On during a hood zone full trigger output
		On during fault report to indicate the hood is open and bypassed when arming
		On when remote is set to command the system programmed as car 1*
		On when remote is set to command the system programmed as car 2*
Remote Control Status		Bars indicate battery level is full, 3/4, 1/2, 1/4 or empty
		On while the remote control is transmitting a command
		On while the remote control is receiving a message
		On with out of range fault tone to indicate the remote failed to receive a command confirmation
		Pager on: The remote will wake up to listen for messages
		Pager off: The remote will not wake up to listen for messages
		The remote will vibrate when messages are received
		The remote will emit beeps and tones when messages are received

Icon	Description
Text field	Displays the clock, message text and feature menus
	Remote start is active, the engine is running (with optional remote start module only)

* This icon not present until the car 2 is turned on in the Setup Remote configuration menu.

Using your System

Commands and Confirmations


Commands, basic or advanced, are used to activate system features and are performed by pressing one of the command buttons. Basic commands control the most often used security features while advanced commands control more specialized features and request reports.

Confirmations for basic or advanced commands are indicated first by siren chirps and parking light flashes, and then by text, icons and beeps or tones on the remote control. A description of each feature confirmation is found in the *Basic Commands* and *Advanced Commands* sections.





Performing Commands

Perform basic commands by pressing one of the command buttons while in the direct access level. Direct access is available while the text field displays the clock. Perform advanced commands by first accessing one of the function Levels and then pressing one of the command buttons while within a level. Function Levels are available when the text field displays LEVEL 1,2,3 or 4.

Advanced Command example: Silent Arm

1. Press the **f** button once to access function level 1, the text field will display **LEVEL 1**.
2. Press the  button while **LEVEL 1** text is still on to perform the silent arm command.
3. The Responder LSC remote will display **SILENT ARMED** in the text field and update the status screen icons.

Responder LSC Command table

Level Button	Direct Access	f x 1 LEVEL 1	f x 2 LEVEL 2	f x 3 LEVEL 3	f x 4 LEVEL 4
	Arm/Lock (Panic)	Silent Arm	Sensor Bypass	Sensor Silent Arm	Full Silent Arm
	Disarm/Unlock	Silent Disarm	Remote Valet	Car Finder	
	Remote Start* / Aux 1/4**				
	Aux/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
f	Advance Level Change Car (3s), Enter programming (8s)			Alarm Report	

* Available only with optional remote start module installation

** This button can command either aux 1 or aux 4 if turned on by an authorized Directed dealer.

Basic Commands (Direct Access)



Arm



Press and release 

The alarm arms, doors lock (if connected), and the siren chirps and parking lights flash once. The **ARMED** text and beeps play to confirm and the system status icons update. If valet mode* is on, the doors lock and the **VALET** text and tone play. Exit valet mode to arm the alarm normally.

If a trigger zone fault is detected the siren chirps once again and the trigger zone fault report** plays.

To Arm and Panic

Press and hold 

The alarm arms (or locks in valet) and, after 2 seconds, sounds the siren and flashes the parking lights. The **PANIC** text and siren tones play to confirm. Press the  or  button to stop the output.

Disarm

Press and release 

The alarm disarms, doors unlock (if connected), and the siren chirps and parking lights flash twice. The **DISARM** text and beeps play to confirm and the system status icons update. If valet mode* is on, the doors unlock and the **VALET** text and tone play.

More than 2 siren chirps and remote beeps indicate a trigger has occurred. The **DISARM** text is replaced by the alarm report. **

AUX/Trunk


Press and hold 

The trunk opens (if connected) when this button is pressed for 2 seconds. The **TRUNK** text and tones play to confirm.

Remote Start /AUX 1/ AUX 4

Press and release 

Remote Start***

Activates (or if on, deactivates) an optional remote starter. The engine and parking lights turn on or off accordingly. The **REMOTE START ON** text and tones play, or the **REMOTE START OFF** text and tones play to confirm. The  icon is displayed in the status screen while the engine is running.

AUX 1/AUX 4****

Activates (or if on, deactivates) the aux 1 or aux 4 output. The programmed text and on tones or off tones play to confirm, (See *System Expansion Options*).

* See "Remote and System Operations" on page 29.

** See "Alarm Features" on page 25.

*** Available only with optional Remote Start module installation.

**** This feature must be turned on by an authorized Directed dealer.

Advanced Commands: (Level 1)

Press and release the **f** button one time, prior to pressing the following command buttons.



Silent Arm

Press and release 

The alarm arms, doors lock (if connected), and the parking lights flash once. The **SILENT ARMED** text plays to confirm and the system status icons update. Valet mode* or trigger zone fault report** messages may be received.

Silent Disarm

Press and release 

The alarm disarms, doors unlock (if connected), and the parking lights flash twice. The **SILENT DISARM** text plays to confirm and the system status icons update. The alarm report** may replace the silent disarm text.

AUX 1

Press and release 

Activates (or if on, deactivates) the aux 1 output. The programmed text and on tones or off tones play to confirm, (See *System Expansion Options*).

* See "Remote and System Operations" on page 29.

** See "Alarm Features" on page 25.

Advanced Commands: (Level 2)

Press and release the **f** button two times, prior to pressing the following command buttons.



Sensor Bypass

Press and release 

Performing the sensor bypass command will incrementally bypass sensor operations and be confirmed as follows:

- Warn-away bypass: The parking lights flash 2 times, **BYPASS WARN** 1 beep and 1 fault tone play to confirm. Sensors will be activated for full trigger levels of impact only.
- Warn-away full trigger bypass: The parking lights flash 3 times, **BYPASS FULL**, 1 beep and 2 fault tones play to confirm. Sensors will not be activated for any level of impact.
- Sensor Bypass off: The parking lights flash 1 time **BYPASS OFF** and 1 beep play to confirm. Sensors are fully operational.

If disarmed, **NOT AVAILABLE** and a fault tone will play.

Remote Valet

Press and release 

Enters (or if on, exits) valet mode. The **VALET** text and beeps (1 for on, 2 for off) play to confirm and the system status icons update. See *Valet Mode* for more details

AUX 2

Press and release 

Activates (or if on, deactivates) the aux 2 output. The programmed text and on tones or off tones play to confirm, (See *System Expansion Options*).

Advanced Commands: (Level 4)

Press and release the **f** button four times, prior to pressing the following command buttons.



Full Silent Arm*

Press and release 

The alarm arms, doors lock, and the siren chirps and parking lights flash 4 times. The **FULL SILENT ARM** text and beeps play to confirm and the system and siren icons update.

AUX 4

Press and release 

Activates (or if on, deactivates) the aux 4 output. The programmed text and on tones or off tones play to confirm (See *System Expansion Options*).

* See "Alarm Features" on page 25.





Responder LSC Configuration

Operations of the Responder LSC and how it communicates messages are set in the configuration main menu.



Navigating Menus and Options

Navigating menus and features, changing options, and exiting are performed using the remote control buttons. The following instructions discuss how to access and configure the settings.

Button Operation

- To **access** menus, **set** options, and to **perform** actions that are displayed in the text field, use the **f** button.
- To **scroll** the menu lists in the text field use the  or  buttons.
- To **exit** configuration: use the  or  buttons.

Access Menu Items

1. **Press and hold** the **f** button for 8 seconds, the remote will beep once, **MAIN MENU** is displayed. (If car 2 is on, ignore the car select text and beep after 3 seconds).
2. **Release** the **f** button to display the main menu item list, **SETUP REMOTE** is displayed.
3. The main menu has been accessed and configuring can begin. Use the following process to view the main menu features, options and settings in the text field. The following actions are commonly used throughout the configuration operation.
 - **Press** the  or  buttons to change the feature or option that is displayed in the text field.
 - **Press** the **f** button to choose the feature in the text field and view its options. Press it when the desired feature or option is in the text field to set it as the new setting.


Main Menu

The following main menu list of features is available for configuration of the remote control.

Setup Remote Menu:

Keypad Lock

Options: **OFF**, **AUTO**

When **OFF**, the buttons do not lock and always perform a command when pressed. When set to **AUTO**, the buttons lock after a 20 second lapse between buttons presses to prevent unintentional operations. If a button is pressed when locked a fault tone plays as an alert followed by unlock instructions in the text field. To unlock the buttons, press the **f** button followed by the  button. The unlock tones play and **READY** is displayed in the text field, a command can now be performed.

Auto unlocking

After turning the ignition off, a message to the remote will unlock the buttons until a command is performed. If auto unlocking is not desired this feature can be turned off by an authorized Directed dealer.

Page Mode

Options: **POWER SAVE**, **OFF**, **ON**

Paging is how the Responder LSC remote control monitors your system's messages. **POWER SAVE** extends battery life by turning paging off after 72 hours if the remote control is not used during

this period. Just press any button to resume system monitoring. When set to **ON** it wakes up every few seconds to listen for pages from the system. When set to **OFF** it does not wake up to receive alarm trigger pages.

Note: When **OFF**, responses are still received when a command is performed but alarm trigger pages will not be received.

Page Alert

Options: **TOUCH VIBE**, **TOUCH**, **VIBE**, **SCREEN ONLY**

There are several ways for the Responder LSC to alert you when it has received a message from the system.

TOUCH VIBE will alert by both emitting tones and vibrating the remote. Select **TOUCH** to be alerted by tones that are unique for each message. Select **VIBE** and the Responder LSC will silently alert you with a gentle vibration, or select **SCREEN ONLY** when you don't want to be interrupted.

Remote Start Info

Options: **RUNTIME**, **TEMP**, **CLOCK**

These options are only available when paired to a Directed Electronics remote start or remote start and security system.

Runtime Alert

Options: **ON**, **OFF**

These options are only available when paired to a Directed Electronics remote start or remote start and security system.

Car 2

Options: **OFF**, **ON**, **HOME**

This remote can control two systems independently. When set to **OFF**, the car 2 select option is not available. When set to **ON** the remote can be set to control 2 systems. The **HOME** option is for pairing to a home security system.

BackLight

Options: **OFF**, **ON**

The status screen backlighting can be **OFF**, or when **ON** will illuminate during remote operations.

Temp Unit

Options: **F**, **C**

These options are only available when paired to a Directed Electronics remote start or remote start and security system.

Button Beep

Options: **ON**, **OFF**

When set to **ON**, the remote will emit a beep as confirmation of a button press. When set to **OFF**, beeps are not emitted for button presses.

System Type

Options: **SEC**, **RKE**

Selects the type of system, namely; **security** or **remote keyless entry** to which the remote has been paired, and adjusts the text and main menu accordingly. This has been pre-set by the factory for your system.

Clock Set

Options: **HOURL**, **MIN**

The clock is formatted for 12 hour mode with AM or PM indicated. Once the desired time is set return to one of the text displays (**HOURL** / **MIN** / **BACK**) before exiting to save the new time. Exiting clock set while time is still in the display will revert to the previous setting.

Review

Displays firmware version

Exit

Exits and returns to the main menu

Sensor Adjust:

If you feel your security system shock sensor is too sensitive or not sensitive enough, it is highly recommended that you contact your authorized Directed dealer/professional and have the sensor adjusted for optimized security detection performance.

Pair a Responder LSC remote control:

Pairing is a process where the Responder LSC and the system in the vehicle learn each others encrypted identification, securing their communication from intruders. Please note that your remote controls come pre-programmed from the factory.



Prepare the system

1. **Open** a door.
2. **Turn** the ignition on.
3. **Press** and release then **press** and **hold** the control center button. The control center LED flashes and the siren chirps one time to confirm the system is prepared.
4. **Release** the control center button and proceed below.

Note: Begin pairing within 60 seconds or the system will exit (indicated by a long siren chirp) and will need to be prepared again.

Prepare the remote control

Select the desired Car 1 (Default) or Car 2 operation before proceeding.

1. **Press** and **hold** the **f** button of the remote control until a long beep is emitted and **MAIN MENU** is displayed (If programmed to operate two systems, confirm the correct car 1 or car 2 text and beeps at 3 seconds).
2. Release the **f** button to view the main menu. **REMOTE SETUP** is displayed.
3. **Press** and release the  button two times. **PAIR REMOTE** is displayed.
4. **Press** and **hold** the **f** button until **PAIR** is displayed, and then release it.
5. **Press** and **hold** the  button until the siren emits a long chirp. **SUCCESS** is displayed with a sequence of chimes.

Note: If **FAILED** is displayed, make sure the system is still prepared and repeat step 5 until successful.

Demo Mode:

Demo mode plays a pre-selected group of animations as a demonstration tool to show friends or family. Running demo mode shortens the battery life over time if used excessively

- **SINGLE SILENT**: The remote will display a selection of icons on the status screen without beeps and tones then stop
- **SINGLE SOUND**: The remote will display a selection of icons on the status screen with beeps and tones then stop
- **LOOP SILENT**: The remote will display a selection of icons on the status screen without beeps and tones in an endless loop until the battery charger is disconnected.
- **LOOP SOUND**: The remote will display a selection of icons on the status screen with beeps and tones in an endless loop until the battery charger is disconnected.

Note: Loop silent and loop sound are not available and will not appear in the demo mode menu unless the battery charger is connected.

Power Off:

When an extended period of non-operation is anticipated, turning the power off will preserve the battery charge. Press the **f** button while **POWER OFF** is displayed. The status screen icons clear as the power off tones play, the remote is turned off.

To turn the remote on, Press and hold the **f** button for 3 seconds, the status screen icons refresh as the power on tones play. The remote also turns itself on and begins charging when the battery charger is connected.

Exit:

To return to normal operation, press the **f** button while **EXIT** is displayed.

Alarm Features

Normal Arm Protection

Control center LED: The control center LED flashes as a visual indicator that your vehicle's security system is active.

Starter Kill: The failsafe starter kill relay prevents the engine from starting

Note May require additional parts and installation

Sensor triggers: The onboard shock sensor can distinguish minor impacts from major impacts to the vehicle exterior. Minor impacts causes the system to emit a warn-away output by chirping the siren and flashing the parking lights for 3 seconds. Major impacts caused for example by a forcible entry attempt, results in a full trigger output. The siren sounds and the parking lights flash for 30 seconds or longer. Both warn-away and full triggers send a message to the remote control.

Point of entry triggers: Opening the hood or trunk causes a full trigger output, while opening a door or turning on the Ignition causes the siren to chirp 3 seconds before beginning the full trigger output. This 3 second delay allows time to disarm and silence the siren in case of accidental trigger. The full trigger message is still sent to the remote.

Sensor Silent Arm Protection

Sensor warn-away and sensor full trigger activations only send messages to the remote, while the parking light flash and siren outputs are defeated. Point of entry triggers will activate the parking light flash, siren, and send messages normally.

Full Silent Arm Protection

Sensor warn-away, sensor full trigger and point of entry activations will only send messages to the remote, with parking light flash and siren outputs defeated.

Sensor Warn-away Messages

When the remote receives a sensor warn-away message it emits 10 beeps (if on) and displays a sensor zone specific **SENSOR WARN** text for 30 seconds. Warn-away messages cannot be reviewed or displayed in reports.

Full Trigger Messages

A full trigger message generates a full trigger output of siren tones and zone specific **TRIGGER** text followed by an alert that consists of 1 long beep per minute for 10 minutes.

To stop the output and alert, **press** a command button to perform a command, or **Press** the **f** button.

Emergency Override

The following procedure disarms the system when a programmed remote is not available. Number of presses _____

1. **Turn** the ignition on.
2. **Press** the control center button the correct number of times (the default is 1 press).
3. After a few seconds the siren output ceases and the system is disarmed.

Note

As a precaution, if programmed for passive arming or auto re-arming the system should be placed into valet mode until a remote is available .

Trigger Zone Fault Report

When armed by remote command the system runs a status check of the alarm trigger zones. Faulty zones (usually caused by dome light delay or open trunk) are bypassed and reported via the control center LED and remote, while all other trigger zones remain active and are monitored to protect the vehicle. Should a faulty zone self correct (dome light turns off) it becomes active and is then monitored normally. The siren chirps once again a few seconds following the arming chirps as an audible alert, the control center LED flashes in groups to indicate the zone number. The remote will emit a single fault tone and play zone specific text that identifies the faulty zones.

Alarm Report when Disarming

The most recent alarm triggers (if any) are reported when the alarm is disarmed via the remote control, siren chirps, parking light and control center LED flashes. The siren chirps 4 times (or 5 times if NPC on*), the parking lights flash 3 times, and the control center LED flashes in groups to indicate the last two zones that were triggered (see *Table of Zones*). The **DISARM** text is replaced by **ALARM REPORT** and text identifying the triggers. The report output will repeat for each disarm operation until the vehicle is driven.

* See "Nuisance Prevention (NPC)" on page 28.

Table of Zones

Zone # (led flashes)	Zone Name
1	Trunk
2	Shock Sensor
3	Door
4	Sensor 2
5	Ignition
6	Hood
7	Sensor 3

Alarm Report when Requested

The alarm report displays the two most recent alarm triggers depending on the system state when requested. When disarmed, the report will display text to identify the two most recent triggers since the vehicle was last driven. When armed, the report will display text to identify the two most recent triggers since the system was armed.

Note The Alarm Report clears when ignition is turned on.

Nuisance Prevention (NPC)

NPC monitors all alarm zones and, if any are triggered excessively, bypasses them until corrected. If a point of entry (trunk, hood, door) is left open following a forced entry, it is bypassed. It becomes active again only after being closed.

Bypassed sensors automatically reset after one hour and after the vehicle is driven. Disarming then re-arming the alarm does not reset bypassed sensors.

Remote and System Operations

Passive Arming*

Park and exit the vehicle, after the doors are closed the passive arming countdown begins. The control center LED flashes quickly and upon reaching 20 seconds the siren then chirps once. At 30 seconds the system arms itself.

Anytime before the system arms you can re-enter the vehicle or open the trunk to load or unload items and, after closing passive arming resumes.

To stay secure in the case of accidentally disarming the system, if a door is not opened within 30 seconds the system re-arms itself and locks the doors.

Auto Re-arming*

Auto re-arm ensures the vehicle stays protected if it is not entered after disarming by remote control. After disarming by remote, the alarm automatically re-arms itself (and locks the doors if programmed on) in 30 seconds. Open any point of entry to stop the re-arm until the next disarm by remote.

Onetime Bypass*

Turn the ignition on for one to three seconds and then off. The siren chirps once to confirm one-time bypass is enabled.

One-time bypass can be used to temporarily bypass the passive arming operation for one cycle. It also bypasses the comfort closure and auxiliary channel outputs programmed to activate when arming. After the next disarm all operations return to normal.

* These features must be turned on by an authorized Directed dealer.

Valet Mode

Valet mode can be entered and exited by performing the remote valet command or manually using the vehicle key and the control center button. When entered, the alarm functions are defeated while the convenience features still operate normally.

Arm and disarm commands lock and unlock the doors while the **VALET** text and beeps play to confirm.

Use the following steps to manually enter and exit valet mode:

1. **Turn** the ignition switch on and then off
2. Immediately **press** and **release** the control center button once
3. The control center LED turns on when entering and off when exiting.

Power Save

To reduce power consumption the control center LED modifies its output if the vehicle is parked for an extended period. If armed the flashing is reduced after 24 hours. When valet mode is on the control center LED will turn off after 1 hour and will reset each time the ignition is turned off.

Rapid Resume

If power is ever disconnected by a mechanic or thief, the system will resume the state it was in at the time of disconnection, when power is reconnected.

Automatic Remote Updates

The system sends a silent message to all remote controls after any major action has occurred. When the remote receives this message it updates the status screen icons. This way all users are able to quickly review the system status just by accessing the status screen.

Out of Range

Each time a command is performed the remote will expect a command confirmation from the system. If a command confirmation is not received the out-of-range icon (✘) and a fault tone will play as an alert.





No Remote Output

Occasionally when a command is performed the remote may not generate a command confirmation output or out of range output. This indicates that the system received the command but it was an incomplete command (e.g. aux button pressed too short to activate the trunk release) or it was an illegal message (e.g. the command was corrupted due to local RF interference). These are temporary normal functions of the system and remote, perform the command again within 10 seconds to return to normal operation.

Car Select

Car 2 must first be turned on (See *Responder LSC Configuration* and *Main Menu* sections to turn on).

Two Way Remote

1. Press and hold the **f** button for 3 seconds or until the remote beeps. The  or  icon flashes and the text **CAR 1** or **CAR 2** is displayed.
2. Change car: While in this mode press the **f** button to switch between cars and the  or  icon changes accordingly indicating which car the remote currently operates.
3. Select the car you want to operate and then press any command to operate the system. The selected car remains selected until the setting is changed.

Vehicle Recovery System (VRS)

In case your vehicle is stolen or carjacked, VRS sounds the siren and flashes the parking lights to persuade the thief to abandon the vehicle, and when the ignition is turned off, activates the starter kill to prevent the engine from restarting.

To arm VRS, perform the silent arm command while driving, or while the ignition is turned on. The siren chirps and parking lights flash once to confirm arming. The **ARMED** text and beeps play, and the system status icons update to confirm arming.

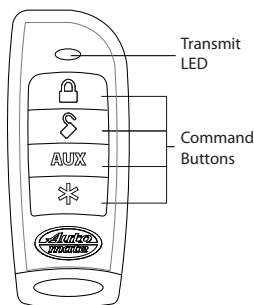
If valet mode is on, the **NOT AVAILABLE** text and tone plays, exit valet mode before arming VRS.

Once armed, VRS triggers if any door is opened then closed while the ignition remains on, and if the vehicle is parked while armed, VRS triggers when driving resumes. See trigger description below.

When triggered, the control center LED begins flashing after fifteen seconds. Within 45 seconds perform the silent disarm command to disarm VRS. If not disarmed, the siren begins chirping for 60 seconds and then becomes a constant siren blast with flashing parking lights for several minutes. This output will continue and be repeated each time the ignition is turned on until VRS is disarmed.

To disarm, perform the silent disarm command anytime before VRS has been triggered, or within one minute after it has triggered and before the siren begins to chirp. If not disarmed before the siren begins to chirp, the emergency override procedure must be used to disarm VRS.

1-way Companion Remote Control



Action Button	Press and Release	Shift (Press/release "AUX" first)	Press/Hold for 2 secs.
	Arm	Silent Arm	Arm and Panic
	Disarm	Silent Disarm	No function
AUX	Shift*	Sensor Bypass	Trunk Release
	Remote Starter**/Auxiliary 1-4 activation***	No Function	

* Advanced commands are performed by pressing and releasing the AUX button prior to pressing a command button to perform the action in the Shift column.

** Available only with optional remote start module installation


*** This button can command either aux 1 or aux 4 if turned on by an authorized Directed dealer.

Using the 1-way Companion remote

This remote control performs a limited set of system commands as shown in the previous table. As a 1-way, it only transmits without providing feedback. Siren chirps and parking light flashes are used to indicate that a command has been received and activated as described in the *Basic Commands* and *Advanced Commands* sections.

Accessing Commands

Similar to the Responder LSC remote, basic commands are performed when a command button is pressed directly. To perform advanced commands **press** the AUX button first followed by a command button or hold a command button for at least two seconds depending upon which command you wish to perform. See function table on previous page for commands that can be performed with this remote control.

Example 1: To activate Silent Arm, press **AUX** followed by .

Silent Arm

Press and release **AUX** then 

The alarm arms, doors lock (if connected), and the parking lights flash once. The arm LED turns on to confirm. valet mode* or trigger zone fault report** messages may be received.

Silent Disarm

Press and release **AUX** then 

The alarm disarms, doors unlock (if connected), and the parking lights flash twice. The disarm LED turns on to confirm. The silent disarm output may be replaced by the alarm report**.

* See "Remote and System Operations" on page 29.

** See "Alarm Features" on page 25.

Sensor Bypass

At any time while the system is armed, **press** and release the **AUX** button on the remote and then within two seconds, **press** and hold the **AUX** button for one second to enable the sensor bypass mode. Repeating the previous steps incrementally bypass sensor operations and are confirmed as follows:

- **Warn-away Bypass:** The parking lights flash 2 times. The arm LED, 1 beep and 1 fault tone play to confirm. Sensors will be activated for full trigger levels of impact only.
- **Warn-away & Full Trigger Bypass:** The parking lights flash 3 times. The arm LED, 1 beep and 2 fault tones play to confirm. Sensors will not be activated for any level of impact.
- **Sensor Bypass Off:** The parking lights flash 1 time. The arm LED and 1 beep play to confirm. Sensors are fully operational.


Note	Sensor bypass can only be performed when the system is armed. Perform arm command any time to turn sensor bypass off.
-------------	---

Pairing a 1-way remote control

Note: The remote control may or may not emit sounds during this operation.

Prepare the vehicle

1. **Open** a door.
2. **Turn** the ignition On.
3. **Press** and **release** then **press** and **hold** the control center button. The control center LED flashes and siren chirps one time to confirm the system is prepared.

4. **Release** the button.
5. **Press** and **hold** the  button until the transmit LED turns on solid.
6. The siren emits one sound to confirm learning.
7. Repeat for each remote control to be learned (up to four)
8. Turn the ignition off or wait 60 seconds to exit learning, the siren emits 2 sounds to confirm.

Pairing will exit if:

- There is no activity for 60 seconds.
- The doors are closed.
- The ignition is turned off.
- The control button is pressed too many times.

System Expansion Options

Controlling Two Vehicles (car select)

The Responder LSC can control systems in two different vehicles saving the need for multiple remote controls. This feature also allows for customized system configurations on each vehicle that has more than one driver. See following *Owner Recognition* for details.

Owner Recognition

The system can be configured to recognize the remote used when disarming and change selected features to match the remote users preferences. Memory seat adjustment, siren chirps, passive arming, remote button auto unlocking, alarm output duration can all be custom set for each remote user at the time of installation.

Comfort Closure

Comfort closure emulates turning the key in the door cylinder or holding the lock button of an OEM keyless entry. It will automatically close the windows and sunroof on vehicles with this type of OEM convenience feature.

Alarm Output Duration

The length of time the siren sounds can be adjusted from 1 to 180 seconds at the time of installation.

Arming and Warn-away Chirp Control

The system arm, disarm and sensor warn-away chirps can be configured for those that prefer a custom silent alarm operation.

Driver Door Priority Unlocking

The door unlocking operation can be configured to emulate an OEM

style of driver priority unlocking for added security during disarming.

Auxiliary Channels

The auxiliary channel outputs of this system can activate many of the convenience features found in today's vehicles. Once a command is performed to activate a convenience feature the Responder LSC displays text that matches the feature. The system installer can clarify if any of the below listed features are compatible with your vehicle.

- Trunk release
- Windows open/close
- Left sliding door open/close
- Right sliding door open/close
- Rear hatch open/close
- Sunroof open/close
- Audio system
- Headlights

Note: The 1-way companion remote has limited accessibility to the auxiliary channels.

Battery Information (Responder LSC)

The Responder LSC remote control is powered by an internal rechargeable battery that can be serviced only through an authorized Directed Electronics dealer. The information and precautions in this section can help maximize your battery's life and usage in providing your Responder LSC remote control with many years of trouble free operation.

The battery information for the 1way companion remote control can be found in the *1-way Companion Remote Control* section of this manual.



Warnings! NEVER connect the supplied AC adapter to products other than the Responder LSC remote control. It is a high current device designed specifically for rapid charging of the Responder LSC battery and may cause severe damage or explosion when connected to any other products.

Charging the battery when the temperature is below 32°F (0°C) or above 113°F (45°C) may cause severe battery damage and/or reduce battery life. Avoid placing the remote control in areas exposed to extreme cold or heat (direct sunlight) when charging the battery.

Low Battery

After a command is performed the Responder LSC and 1way companion remote controls check their battery level and, when the level requires attention, will begin generating alerts. Once the alerts begin they will continue to command the system for several days but should

be charged at the earliest opportunity or failure to control the system may occur.

Low Battery Alerts

When disarming the system using a remote control with a low battery (LSC or 1-way companion), the siren emits one additional chirp as an alert. If confirmation chirps are programmed off, the system will still emit one chirp as an alert when disarming. After performing a command, **LOWBAT** and several beeps play on the Responder LSC remote control to indicate the battery needs to be charged.

Important

To preserve power at critically low battery levels the Responder LSC turns the pager off and stops receiving messages from the system. It will continue to command the system until the battery can be charged.

Battery Life

The Responder LSC remote control has many features that make it one of the most unique remote controls on the market today. The default feature settings provide for excellent battery charge duration. However, to maximize this duration between charges, the following suggestions will help:

- Turn the remote off: When not in use and/or out of range of the vehicle the remote can be turned off in the main menu.
- Turn Paging off: The remote will not wake up to check for messages with paging off in the setup remote menu.

Note: The remote will not receive trigger messages from the system.

- Turn Beeps off: The button beeps can be turned off in the setup remote menu. The command beeps still play normally.

Battery Information (1-way)

The 1-way companion remote control is powered by one 3V coin cell lithium battery (CR-2032), which can be purchased at most retailers that sell batteries. When the battery begins to weaken, the operating range is reduced (see "Low Battery Alerts" on page 40).

Battery Replacement

1. Unscrew the hardware on unit rear and remove from housing.
2. Hold the unit base with one hand and gently twist and pull the main housing body with the other. This releases all parts of the housing assembly.
3. Remove battery from clip and replace with a new one while observing the correct polarity.
4. Reassemble unit and secure with hardware.

Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal.

Glossary of Terms

Document Terminology

Control Module	The “brain” of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the system’s functions.
Responder LSC (2-way Remote Control)	A hand-held, remote control which operates the various functions of your system and receives messages and pages from the system.
Companion Remote (1-way Remote Control)	A hand-held, remote control which operates the various functions of your system but does not provide message display..
Control Center	The control center contains the system’s radio-frequency antenna, the control center button and LED. For maximum remote-control range, the control center is usually located at the top of the windshield, centered near the rear-view mirror.
Control Center LED	A light used to indicate the status of your system. It is located on your system’s control center.
Control Center Button	A small push button located on your system’s control center. It is used to override (disarm) the alarm when a remote is not available or to enter or exit valet mode.

Patent Information

This product is covered by one or more of the following United States patents:

Remote Start Patents:

5,349,931; 5,872,519; 5,914,667; 5,952,933; 5,945,936;
5,990,786; 6,028,372; 6,467,448; 6,561,151; 7,191,053;
7,483,783

Vehicle Security Patents:

5,467,070; 5,532,670; 5,534,845; 5,563,576; 5,646,591;
5,650,774; 5,673,017; 5,712,638; 5,872,519; 5,914,667;
5,952,933; 5,945,936; 5,990,786; 6,028,505; 6,452,484

Other patents pending.

Government Regulations

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

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 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, 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 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 / TV technician for help.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

WARNING! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Additional information

Interference

All radio devices are subject to interference which could affect proper performance.

Upgrades and Batteries

Any upgrades to this product and/or installation of batteries must be performed by an authorized dealer. Do not attempt to perform any unauthorized modifications to this product.

Water/Heat Resistance

This product is not designed to be water and/or heat-resistant. Please take care to keep this product dry and away from heat sources. Any damage from water or heat will void the warranty.

Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR

ANY CONSEQUENTIAL DAMAGES OF ANY KIND. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLIGENCE, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: www.directed.com

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.