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QG4304A 2012-06

Vehicle Remote Start System



The Finest In Security And Convenience For Your Vehicle.

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OWNER'S GUIDE

MODEL
4304A

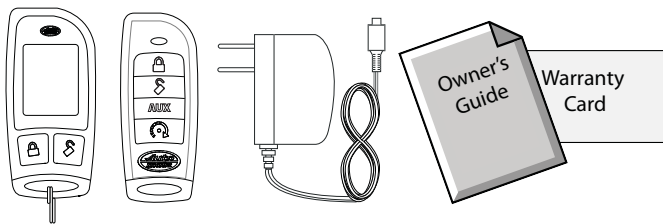
Congratulations

Congratulations on the purchase of your state-of-the-art keyless entry and remote start 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 us online at: www.automatecarsecurity.com for the latest information. For any additional questions please contact your authorized Directed dealer or contact Directed at 1-800-753-0600 (US only). Additional support is also available at: <http://support.directed.com>.

What you get

Welcome to the best generation of keyless entry with remote start. Your system contains everything you need.

- 2-way Responder LC 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 Responder LC system comes with a warranty. Please 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 Responder LC 2-way remote control and 7142A for the companion remote control.

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Getting Started

Your Responder LC remote 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 (Responder LC)” on page 42 and “Status Screen Icons” on page 8 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 LC 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

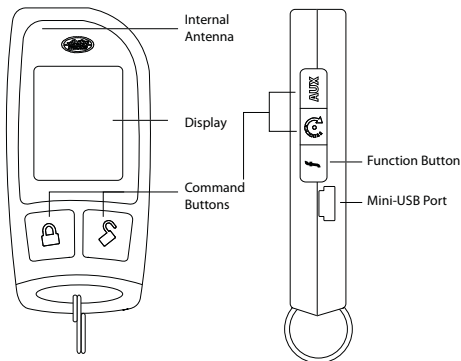
If the battery is excessively depleted when the charger is connected, functionality may be delayed while it charges to the minimum voltage required to operate the display, after which normal charging resumes.

Keys to using this manual

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

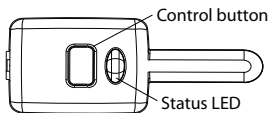
- **Press:** implies pushing in and releasing a button.
- **Hold:** is used after Press actions when a button needs to be held in position for an extended period of time, typically several seconds.
- **LOCKED** this style denotes the text which appears in the text field portion of the Display during 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 LC 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, Remote Start and Remote Control. Text field - the lower portion of display - shows the Clock, Runtime or Temperature during Remote Start, as well as Command confirmations, Page messages and programming menus
Command buttons (4)	Used to perform locking, unlocking, auxiliary channel and remote start commands
Function button	Used to access function levels for commands, configuration menus for programming, Car Selection, and to request reports.
Mini-USB Port	The battery charger plugs into this port.

Control Center



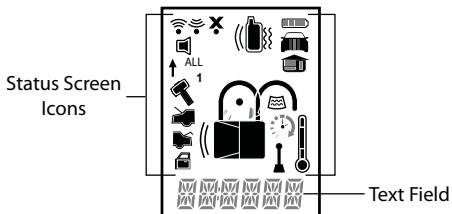
The Control Center, typically located on the upper part of the front windshield sends and receives commands or messages to and from your system. It consists of:

- The In-vehicle system antenna, for 2 way communication.
- The Status LED, as a visual indicator of the system's status.
- The Control button, for placing the system into Valet Mode* and to perform the Emergency Override** operation.

* See "Remote and System Operations" on page 34 for details.














** See "Alarm Features" on page 27 for details.

Status Screen Icons



The table below describes all the status screen icons.

	Icon	Description
System Status		Locked: The system is locked.
		Locked: The system is Locked in Valet.
		Unlocked: The system is Unlocked.
		Unlocked: The system is Unlocked in Valet.
Remote Start		Remote start is active, the engine is running.
		Timer mode is On; Remote Start is On. Note: When the icon is without an arrow head: Timer mode is enabled: Remote Start is Off
		Smart Start is On; Remote Start is On. Note: When the icon is without an arrow head: Smart Start is On; Remote Start is Off.
		Manual Transmission Start mode is enabled, the engine can be started
		Displays the vehicle interior temperature
		On during Remote Start after performing the Defogger On command

Icon	Description	
	On during Trunk channel activation	
	On during the factory security full trigger output (see system features)	
	On during Fault Report to indicate a Door is open when locking	
	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
	Text field	Displays the Clock, Runtime, Temperature, message text and feature menus

* 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 and remote start 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 following Basic command and Advanced command 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, Temperature or Runtime. 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 Lock

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 Lock command.
3. The Responder LC remote will display **SILENT LOCKED** in the text field and update the status screen icons.

Responder LC 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
	Lock (Panic)	Silent Lock			
	Unlock	Silent UnLock	Remote Valet	Car Finder	
	Remote Start	Runtime Reset	Timer Start	Smart Start	Defogger
	Aux/Trunk	AUX 1	AUX 2	AUX 3	AUX 4
f	Advance Level Change Car (3s), Enter programming (8s)	Temperature Check	Runtime Remaining		

Fault Condition Alerts

If, when performing a command, a condition exists that does not allow activation of a Remote Start feature*, the **NOT AVAILABLE** or **REMOTE START ERROR** text and a fault tone will play.

- * Remote Start feature not available when the Remote Start status is incorrect upon receiving the command. (Example: Runtime reset command received when remote start is off)
Refer to the notes included in the command descriptions that address these faults or go to "Remote Start Error" on page 33 for more details.

Basic Commands (Direct Access)



Lock

Press and release 

The doors lock and the horn honks (if connected) and parking lights flash once. The **LOCKED** 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 Lock the system normally.

If the door was open when locking, you are notified of an active zone immediately after locking the system. The horn in the vehicle “honks” again. The 2-way remote control sounds a short “error” tone, and the LCD displays the door icon.

Note: the optional door input and horn honk must be connected for the system to give notification.

To Lock and Panic

Press and hold 

The system Locks (or Locks in Valet) and, after 2 seconds, sounds the horn and flashes the parking lights. The **PANIC** text displays and horn honks to confirm. Press the  or  button to stop the output.

Unlock

Press and release



The doors unlock (if connected), and the horn honks (if connected) and parking lights flash twice. The **UNLOCKED** 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.

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

Press and release



Activates (or if On, deactivates) the remote starter. The engine and parking lights turn On and the **REMOTE START ON** text and tones play, or the engine and parking lights turn Off and the **REMOTE START OFF** text and tones play to confirm, the Remote Start status icons update. The  icon will display in the status screen and the text field will display the Runtime, Temperature or Clock as programmed. If Remote Start fails to activate, **REMOTE START ERROR** text and a fault tone play while the parking lights flash to identify the reason. **

* See "Remote and System Operations" on page 34 for details.

** See "Remote Start Error" on page 33 for details.

For Manual transmission vehicles see "Manual Transmission Start (MTS mode)" on page 31 for more details.

Advanced Commands: (Level 1)

Press and release the **f** button 1 time first, prior to pressing the following command buttons.



Silent Lock

Press and release 

The doors lock (if connected), and the parking lights flash once. The **SILENT LOCKED** text plays to confirm and the System Status icons update. Valet mode* message may be received.

Silent UnLock

Press and release 

The doors unlock (if connected), and the parking lights flash twice. The **SILENT UNLOCK** text plays to confirm and the System Status icons update.

AUX 1

Press and release 

Activates (or if On, deactivates) the Aux 1 output. The **AUX CHANNEL** text and On tones or Off tones play to confirm.

Runtime Reset

Press and release 


If more time is needed while remote start is active, runtime reset will reset the runtime counter to the pre-programmed setting. The

RUNTIME text and tones play to confirm. The text field will update if set to display runtime.

Note Remote Start must be On to use this feature.

Temp Request

Press and hold the **f** button

Requests the vehicle's interior temperature and temporarily displays it via status screen icon  and text field.

* See "Remote and System Operations" on page 34 for details.

Advanced Commands: (Level 2)

Press and release the **f** button 2 times first, prior to pressing the following command buttons.



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 **AUX CHANNEL** text and On tones or Off tones play to confirm.

Timer Start*

Press and release



Activates (or if On, deactivates) Timer Start. The parking lights flash quickly four times for On and slowly four times for Off. The **TIMER START ON** or **TIMER START OFF** text and beeps play to confirm and the Remote start status icons update.

Note

System needs to be locked or Timer Start will not start the engine.

Runtime Remaining

Press and hold the **f** button

Requests the remaining Remote start runtime and temporarily displays it in the text field.

Note Remote Start must be On to use this feature.

* See *“Advanced Start”* on page 29 for more details.

Advanced Commands: (Level 3)

Press and release the **f** button 3 times first, prior to pressing the following command buttons.



Car finder

Press and release

The horn emits one long honk and the parking lights flash for 10 seconds. The **CAR FINDER** text and beeps play to confirm. The parking light flashes stop if locked or unlocked while Car Finder is in progress.

AUX 3

Press and release

Activates (or if On, deactivates) the Aux 3 output. The **AUX CHANNEL** text and On tones or Off tones play to confirm.

Smart Start*

Press and release

Activates (or if On, deactivates) Smart Start feature. The parking lights flash quickly five times for On and slowly five times for Off. The **SMART START ON** or **SMART START OFF** text and beeps play to confirm and the Remote start status icons update.

Note System needs to be locked or Smart Start will not start the engine.

* See "Advanced Start" on page 29 for more details.

Advanced Commands: (Level 4)

Press and release the **f** button 4 times first, prior to pressing the following command buttons.



AUX 4

Press and release 

Activates (or if On, deactivates) the Aux 4 output. The **AUX CHANNEL** text and On tones or Off tones play to confirm.

Defogger*

Press and release 

Activates the vehicle Defogger circuit (if connected) while Remote Start is activated. The **DEFOG ON** text and beeps play to confirm and the Remote Start status icons update. For convenience, the Defogger circuit will also automatically activate 10 seconds after remote starting if the temperature is below 55°F.

Note Remote Start must be active to use this feature.

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





Responder LC Configuration

Operations of the Responder LC 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 remote 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 sent to the remote unlocks the keypad buttons until the next command is performed. If Auto Unlocking is not desired this message can be turned off by an authorized Directed Dealer.

Page Mode

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

Paging is how the Responder LC remote 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 remote start pages.

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

Page Alert

Options: **TONE VIBE**, **TONE**, **VIBE**, **SCREEN ONLY**

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

TONE VIBE will alert by both emitting tones and vibrating the remote. Select **TONE** to be alerted by tones that are unique for each message. Select **VIBE** and the Responder LC 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**

The text field can be set to display the information you prefer during remote start. **RUNTIME**: Remote Start Runtime, **TEMP**: vehicle interior Temperature, or the **CLOCK** will be displayed in the text field while Remote Start is on.

Runtime Alert

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

The main unit will send a page to alert you when the runtime is about to expire. When set to **ON**, an alert is generated when the Remote Start Time-out message is received. When **OFF**, no alert output is emitted for the message.

Car 2

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

This remote can control two systems independently. When set to **OFF**, the Car2 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 turned **ON** the screen is illuminated during remote control operations.

Temp Unit

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

Temperature can be displayed in your choice of temperature scales, Fahrenheit or Celsius.

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: **HOUR**, **MIN**

Review

Displays firmware version

Exit

Exits and returns to the main menu

Pair Remote:

Remote Pair is a process where the Responder LC 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 vehicle system to be Paired with a new remote

1. **Turn** the key to the **On** position.

2. Within 5 seconds **press** and release 1 time the Control button on the Control Center.
3. Within 5 seconds, **press** and **hold** the Control button. The status LED will flash one time and the horn will honk once to confirm the system is ready for remote pairing.
4. **Release** the Control button and proceed below.

Note: If pairing does not result within 60 seconds, the system will exit and the horn will honk.

Prepare the new remote to be Paired with the system

1. Make sure the remote control is set for the desired Car 1 or Car 2 operation.
2. Perform the steps under *Access menu items* section to access the Pair Remote mode.
3. When the remote beeps 3 times and **PAIR** is displayed the remote is ready to pair.
4. **Press** and **hold** the  button, the horn honks once and the remote will emit several tones to confirm successful pairing. **SUCCESS** is displayed and the remote returns to the main menu.

Note: **FAILED** will be displayed and the remote will stay in the pair mode in case of an unsuccessful pairing. Check the system status and try again.

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.

System Features

Factory alarm trigger notification

This system has an optional input that can be connected to the horn circuit. If the vehicle has a factory alarm controlled by the lock/unlock keyless entry system, the remote reports when the factory alarm is triggered. The remote screen displays the alarm icon and “alarm door open” displays in the text area.

Status LED: The Control Center Status LED flashes as a visual indicator that your vehicle’s remote start system is locked.

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

Note May require additional parts and installation

Emergency Override

The following procedure bypasses the optional failsafe starter kill when a programmed remote is not available.

Number of presses _____

1. **Turn** the ignition On.
2. **Press** the control button on the Control Center the correct number of times (the default is 1 press).
3. After a few seconds the failsafe starter kill is bypassed and you may start the car with a key.


Note As a precaution, if programmed for Passive locking or Auto re-locking the system should be placed into Valet Mode until a remote is available .

Remote Start Features

Pit Stop Mode

To exit vehicle with engine running

The system keeps the engine running during short trips into the house or convenience store. To perform Pit Stop:

1. With the engine running, **set** the parking brake and **release** the foot brake.
2. **Press** the  button, the parking lights will turn on and the **REMOTE START ON** message will play on the remote control.
3. **Turn** the key to off, and **remove** it from the ignition, the engine continues running for the programmed runtime.
4. **Exit** the vehicle and **arm** the alarm.

Note For Pit Stop on manual transmission vehicles follow the directions in the *Manual Transmission Start (MTS mode)* section.

Key Takeover

When you are ready to drive

The system keeps the engine running until the vehicle is ready to be driven. To perform Key Takeover:

1. **Unlock** the system and **enter** the vehicle, do not step on the foot brake.
2. **Insert** the key, **turn** it to the run position, and then **step** on the foot brake, the remote start then turns off.
3. The parking lights turn off to indicate remote start is off, and

then after a few seconds the remote plays the **REMOTE START OFF** message.

4. The vehicle is ready to drive.

Remote Start Safe-lock

Remote start safe-lock makes sure the doors are locked while the engine is running and after, even if they are unlocked when remote start is activated. Door locks may require additional parts and labor.

Disabling Remote Start

Remote start can be disabled by moving the Toggle Switch to the Off position. If remote start is attempted while Off, the engine will not start. (See "Remote Start Error" on page 33) move the switch back to the On position to resume normal operation.

Advanced Start

The Advanced start features Timer Start and Smart Start will automatically start the engine to maintain battery charge or combat extreme cold when parked for an extended period of time.

Precautions for the Advanced Start features:

- Park the vehicle in a well ventilated area away from windows and doors that lead into inhabited spaces.
- Lock the vehicle with the remote, the engine will not start unless the doors are locked.
- Only one Advanced start feature can be enabled at any given time.
- For manual transmission vehicles MTS mode must be enabled before Timer Start or Smart Start can be activated.

Timer Start operation

Activation begins a countdown timer as set by the installer (default 3 hours). When the timer expires the engine starts and the **REMOTE START ON** message is sent to the remote control. When the Remote start runtime expires the engine shuts off, the **REMOTE START OFF** message is sent to the remote control and the countdown timer restarts. This will repeat as many times as set by the installer (default 6 starts). Timer Start is exited after the final start.

Smart Start operation

Smart Start uses the settings for Timer Start in addition to temperature and battery level to automatically start the engine. Activation begins the countdown timer. When the timer expires the vehicle interior temperature and battery level is checked and, if the Temperature is above 100F, below 0F, or the battery level is below 10.5v, the engine will start and the **REMOTE START ON** message will be sent to the remote controls. When the Remote start runtime expires the engine shuts off, the **REMOTE START OFF** message is sent to the remote control and the countdown timer restarts. Smart Start is exited after the final start.

Note	The temperature and battery thresholds can be changed by an authorized Directed dealer if a higher or lower threshold is desired.
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Temperature Reporting

During Remote start the vehicle interior is checked regularly for temperature changes. If a change in temperature is detected this report will be sent to the remote for display. Each time the remote receives this report it will beep, update, and display the newest temperature information using the Temperature Gauge icon.

Note Temperature report must be turned on by an authorized Directed dealer.

Remote Start Time-out Alert

During remote start a message is sent three minutes before and again at one minute before the engine turns off. The **RUNTIME LOW** text plays with tones as an alert to reset the runtime if desired.

Manual Transmission Start (MTS mode)

When installed into a manual transmission vehicle, the system requires that the MTS mode is properly set when parking. If MTS mode is not properly set or is defeated after being properly set the system will not start the engine and the **REMOTE START ERROR** text and tones play as an alert.

1. With the engine running, press the foot brake and **set** the parking brake. For Pit Stop or Turbo Timer mode (to leave the engine running after arming) **open** the driver door.
2. **Release** the foot brake.
3. Within 20 seconds of foot brake release, **press** any command button on the remote, after 20 seconds return to Step 2 (For Turbo Timer Mode, press the optional dash mounted activation button or send the Timer Mode command from the Advanced Start menu screen on the remote control).
4. The parking lights flash 5 times to confirm MTS mode enable and the remote start activates the ignition outputs. The **REMOTE START ON** text and beeps play to confirm.
5. **Turn Off** and **remove** the key from the ignition switch, the engine remains running.
6. **Exit** the vehicle, **close** all the doors and **arm** the system.
7. The engine turns off and after a few seconds, the **REMOTE START OFF**

message plays to confirm. If the door is opened in Step 3 then the engine continues to run.

Turbo Timer Mode

The system keeps the engine running for the Turbo Timer runtime and can be activated by remote control or optional dash mounted activation button (the optional dash mounted activation button needs to be installed to activate this feature if using the companion remote).

1. With the engine running, **set** the parking brake.
2. **Press** the optional dash mounted activation button or perform the Timer Mode command on the remote.
3. The parking lights turn on and the remote start activates the ignition outputs. The **REMOTE START ON** text and beeps play to confirm.
4. **Turn Off** and **remove** the key from the ignition switch, the engine remains running.
5. **Exit** the vehicle, **close** all the doors and **arm** the system.
6. The engine runs for the Turbo Mode runtime.

Note	Turbo Timer must be turned on by an authorized Directed dealer. Turbo timer mode for manual transmission vehicles is in the manual transmission start section (step 3).
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Safety Features:

The following safety features disable the remote start when activated or do not allow the engine to start, if not properly set before starting.

- Foot brake depressed
- Hood is open

- Shut down toggle switch is off
- Engine over-rev protection (tachometer mode only)
- MTS mode is not enabled correctly

Remote Start Error

For user safety, the system must be properly configured or remote start will not activate. Refer to the table below for the screens and parking light flashes that will identify the configuration issue and resolution.

Flashes *	Possible Fault	Solution
5	Brake on	Release foot brake
6	Hood open	Close hood
7	After performing Remote Start command - MTS not enabled	Enable MTS mode
	After performing Timer Start or Smart Start command	Check all Solutions
8	Toggle Switch off	Turn switch on
None	Alarm is triggered	Disarm or reset alarm

* Refers to the number of parking light flashes.

Remote and System Operations

Passive Locking*

Park and exit the vehicle, after the doors are closed the Passive locking countdown begins. The led flashes quickly and upon reaching 20 seconds the horn then honks once. At 30 seconds the system locks itself.

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

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

Auto Re-locking*

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

Onetime Bypass*

Turn the ignition On for one to three seconds and then Off. The horn honks once to confirm one-time bypass is enabled.

One-time bypass can be used to temporarily bypass the Passive locking operation for one cycle. It also bypasses the comfort closure and auxiliary channel outputs programmed to activate when locking. After the next unlock 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 button. When entered, the alarm functions are defeated while the convenience features still operate normally.

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

* Remote valet is not available with the companion remote.

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 button once
3. The control center LED turns On when entering and Off when exiting.

Power Save

To reduce power consumption the control center status LED modifies its output if the vehicle is parked for an extended period. If Locked the flashing is reduced after 24 hours. When Valet mode is On the LED will turn off 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

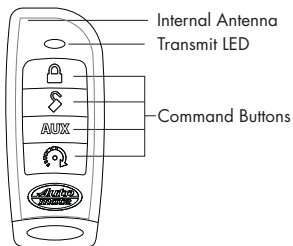
Occasionally when a command is performed the remote may not generate a command confirmation output or Out of Range output. This indicates that the system received the command but it was an incomplete command (e.g. AUX button pressed too short to activate the trunk release) or it was an illegal message (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.




Feature not Available

The **NOT AVAILABLE** message is a generic one which varies in cause and solution depending upon the command used:

Command	Cause	Reason/Solution
Runtime Reset	Remote Start is Off	Only available when Remote Start is On
Defroster	Remote Start is Off. Not configured for this.	Only available when Remote Start is On. Only available when configured for Defroster control.

1-way Companion Remote Control



Action Button	Press and Release	Shift (Press/release "AUX" first)	Press/Hold for 2 secs.
	Lock	Silent Lock	Lock and Panic**
	Unlock	Silent Unlock	No Function
AUX	Shift*		Trunk release
	Remote Start	Runtime Reset	No Function

* Advanced commands are performed by pressing and releasing the **AUX** button prior to pressing one of the other command buttons to perform an associated action.

For example, to silent lock: Press and release **AUX** first, then press and release .

** Optional horn honk feature must be connected.

Using the 1 way companion remote


The companion 1 way remote commands the system features as shown in the previous table, but without the message display of the Responder LC remote and with limited features. Horn honks and parking light flashes are used to indicate that a command has been received and activated as described in the *Basic* and *Advanced command* sections.

Accessing Commands

Similar to the Responder LC remote, Basic commands are performed when a command button is pressed directly. To perform Advanced Commands **press** and release or **press** and **hold** the **AUX** button first to access function levels. The LED turns on for a few seconds to indicate the level shift. **Press** the desired command button while the LED is on to perform the command.

Remote Pairing

Remote Control RF Learning

1. Turn the key to the ON position.
2. Press/release once and then press/hold the Control Button on the system's Control Center. The status LED begins flashing in a sequence of one flash, the horn sounds once to confirm the system is ready for pairing.
3. The button can be released.
4. Press/hold the remote  button until the transmit LED turns on solid.
5. The horn emits one sound to confirm learning.
6. Repeat for each remote control to be learned (up to four).
7. Turn the ignition off or wait 60 second to exit learning, the horn emits 2 sounds to confirm.

The learn routine Exits if any of the following occurs:

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

System Expansion Options

Controlling two vehicles (Car Select)

The Responder LC 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 *Owner Recognition* following for details.

Owner recognition

The system can be configured to recognize the remote used when unlocking and change selected features to match the remote users preferences. Memory seat adjustment, horn honks, passive locking, remote button auto unlocking, 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.

Locking and Unlocking honk control

The system Lock and Unlock honks can be configured for those that prefer a custom silent system 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 LC 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 LC)

The Responder LC 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 LC 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 LC remote control. It is a high current device designed specifically for rapid charging of the Responder LC 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 LC 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 unlocking the system using a remote with a low battery the horn will emit one additional honk as an alert. If confirmation honks are programmed off, the system will still emit one honk as an alert when unlocking. After performing a command, **LOWBAT** and several beeps play on the Responder LC remote to indicate the battery needs to be charged.

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

The Responder LC remote control has many features that make it one of the most unique remote controls on the market today, including superior long range communication with the system. 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. Caution! 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 is powered by one 3V coin cell lithium battery (PN CR-2032). Once the battery begins to weaken, the operating range is reduced.

Low Battery Alerts

When unlocking the system using a remote control with a weak battery, the horn emits an additional honk as an alert even if confirmation honks are programmed off.

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 LC (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 button, and the Status LED. For maximum remote-control range, the control center is usually located at the top of the windshield, centered near the rear-view mirror.
Status LED	A light used to indicate the status of your system. It is located on your system’s Control Center.
Control Button	A small push button located on your system’s control center. It is used to override the optional starter kill system 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.

Remote Controls

To satisfy FCC RF exposure compliance requirements, this device should be used in hand-held, hand operated configurations only. The device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance. This device is designed to be used in a person's hands and its operating configurations do not support normal transmissions while it is carried in pockets or holsters next to a person's body.

Control Center

To satisfy FCC RF exposure compliance requirements, the device and its antenna must maintain a separation distance of 20 cm or more from the person's body, except for the hand and wrists, to satisfy RF exposure compliance.

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.

Warning! Safety First



Please read the safety warnings below before proceeding. Improper use of the product may be dangerous or illegal.

Installation

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer. If you have any questions, ask your retailer or contact Directed directly at 1-800-753-0600.

Remote Start Capable

When properly installed, this system can start the vehicle via a command signal from the remote control transmitter. Therefore, never operate the system in an enclosed area or partially enclosed area without ventilation (such as a garage). When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the installed menu wheel. It is the user's sole responsibility to properly handle and keep out of reach from children all remote control transmitters to assure that the system does not unintentionally remote start the vehicle. THE USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST AT ALL TIMES REMAIN CLOSED. These precautions are the sole responsibility of the user.

Manual Transmission Vehicles

Remote starters on manual transmission vehicles operate differently than those with automatic transmission because you must leave your car in neutral. You must read this Owner's Guide to familiarize yourself with the proper procedures regarding manual transmission remote starters. If you have any questions, ask your authorized Directed dealer or contact Directed at 1-800-753-0600.

Before remote starting a manual transmission vehicle, be sure to:

- Leave the vehicle in neutral and be sure no one is standing in front or behind the vehicle.
- Only remote start on a flat surface
- Have the parking brake fully engaged

WARNING! It is the responsibility of the owner to ensure the parking/emergency brake properly functions. Failure to do so can result in personal injury or property damage. We recommend the owner have the parking / emergency brake system inspected and adjusted by a qualified automotive shop biannually.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user must also have the neutral safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in the product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the authorized Directed dealer to fix the problem.

After the remote start module has been installed, contact your authorized dealer to have him or her test the remote start module by performing the Safety Check outlined in the product installation guide. If the vehicle starts when performing the Neutral Safety Shutdown Circuit test, the remote start unit has not been properly installed. The remote start module must be removed or the installer must properly reinstall the remote start system so that the vehicle does not start in gear. All installations must be performed by an authorized Directed dealer.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN

GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. YOU MUST IMMEDIATELY CEASE THE USE OF THE UNIT AND SEEK THE ASSISTANCE OF AN AUTHORIZED Directed DEALER TO REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

This product is designed for fuel injected vehicles only. Use of this product in a standard transmission vehicle must be in strict accordance with this guide.

This product should not be installed in any convertible vehicles, soft or hard top with a manual transmission. Installation in such vehicles may pose certain risk.

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 DETERRENTS 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.