

Models 7652V, 7652P, 7652X
Security and Remote Start
Owner's Guide



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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.

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 persons' body.

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

The following safety warnings must be observed at all times:

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer.

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 toggle switch. 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.

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 installer 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 bi-annually.

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.

What is included

- The control module with Stinger[™]DoubleGuard®two-stage shock sensor
- Control center (installed out of sight on your vehicle) with integrated status LED and Valet override switch
- One five-button/2-way Supercode Responder LE Remote Control
- One five-button/ 1-way Supercode remote
- Revenger[™]Soft Chirp[™]six-tone siren
- A shut-down toggle switch
- Window decals
- · Your warranty registration

Important information

Congratulations on the purchase of your state-of-the-art remote start and alarm system. Due to the complexity of this system, it must be installed by an authorized dealer only. Installation of this product by anyone other than an authorized dealer voids the warranty. All dealers are provided with a preprinted dealer certificate to verify authorization. By carefully reading this Owner's Guide prior to using your system, you will maximize the use of this system and its features. You can print additional or replacement copies of this manual by accessing our web site at www.directed.com.

Your warranty

Your warranty registration must be completely filled out and returned within 10 days of purchase. Your product warranty will not be validated if your warranty registration is not returned. Make sure you receive the warranty registration from your dealer. It is also necessary to keep

your proof of purchase, which reflects that the product was installed by an authorized dealer.

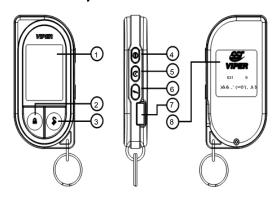
➤ Replacement remotes

Your system comes with one Responder LE remote control (P/N 7752V) and one companion remote control (P/N 7652V). If additional remotes are desired, please see your authorized dealer or visit www.directed-store.com to order.

➤ Caution

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.

Responder LC 2-Way



Feature	Description	
1	LCD	
2	Lock button	Press for one second to arm.
3	Unlock button	Press for one second to disarm.
4	Auxiliary button	Press and hold for 1.5 second to activate optional trun 4 k release.
5	Remote start button	Press for on start. e second to activate remote
6	Function button 2	Allows acce ss to programming and modifies operation of the other buttons.
7	Charge Port 3	Plug in the battery charger to this port.
8	Label	Back of remote has label to identify the remote as 2-way or 1-way.
9	Battery Door	For accessing batteries when necessary.

Feature	Description	
1	Transmit indicator	
2	Lock button	Press for one second to arm.
3	Unlock button	Press for one second to disarm.
4	Remote start button	Press for one second to activate remote start.
5	Auxiliary button	Press and hold for 1.5 second to activate trunk release.
6	Function button	Allows access to programming and modifies operation of the other buttons.
7	1 WAY Label	Back of remote has label to identify the remote as 2-way or 1-way
8	Battery Door	Remove to access batteries when necessary. For more details, see p.10 $_{\mbox{\tiny AUX}}$



➤ Transmitter configuration

f_{x2} **f**_{x3} Direct Level \mathbf{f}_{x1} Access Button SILENT ALARM SENSORS SILENT ALARM ALL ZONES SENSOR BYPASS ARM/LOCK SILENT ARM (Panic) DISARM/UNLOCK (Panic) SILENT DISARM VALET ON/OFF CAR FINDER STARTER ON/OFF SMART START ON/OFF RESET RUNTIME TIMER MODE DEFOGGER ON 9 ON/OFF TRUNK RELEASE AUX1 AUX 2 AUX3 0 (Red/White) Advance Level Change Car (3s) Enter program-ming (8s) * REQUEST TEM-PERATURE * RUNTIME REMAINING* EVENT HISTORY REPORT *

* **f** button must be pressed and **held** to access state.

Button

vate the Panic output Command: Press one time to Arm Feedback: Unlock icon appears and remote beeps twice Dis arm Notes: Command: Press one time to activate Remote Start			
Arm Notes: Press/hold for 1.5 seconds to Arm the system and then ac vate the Panic output Command: Press one time to Arm Feedback: Unlock icon appears and remote beeps twice Dis arm Notes: Command: Press one time to activate Remote Start	Δ	Command:	Press one time to Arm
vate the Panic output Command: Press one time to Arm Feedback: Unlock icon appears and remote beeps twice Dis arm Notes: Command: Press one time to activate Remote Start	-	Feedback:	Lock Icon will appear, and one beep from remote
Feedback: Unlock icon appears and remote beeps twice arm Notes: Command: Press one time to activate Remote Start	Arm	Notes:	Press/hold for 1.5 seconds to Arm the system and then activate the Panic output
Dis arm Notes: Command: Press one time to activate Remote Start	2	Command:	Press one time to Arm
arm Notes: Command: Press one time to activate Remote Start		Feedback:	Unlock icon appears and remote beeps twice
(A)		n Notes:	
Feedback: Remote Start Icon appears on screen, remote emits a tone	<u> </u>	Command:	Press one time to activate Remote Start
Remote Notes:	Remote		Remote Start Icon appears on screen. remote emits a tone
Start			

₩	Command:	Press and hold for 1.5 seconds to activate the Trunk Release.
AUX	Feedback:	The trunk icon appears and the remote plays a short tone.
AUX	Notes:	This is an optional feature. See your sales rep/installer for details.
	Command:	Press 1 to 4 times. (See Function shift table.)
Function Shift	Feedback:	Display shows a text message across the bottom for the command received.
Griii.	Notes:	Each Press then release, shifts the function of the command button.

Pressing more than one button simultaneously generates an Error tone and the F-Shift LED turns ON.

Feature List:

Silent arm

Command: Press **f** one-time and then press

Screen changes to the lock icon Feedback:

Notes: Arms the system without chirps

Silent disarm

Press **f** one-time and then press Command: Screen changes to unlock icon Feedback:

Notes: Disarms the system without chirps

Runtime reset

Press Command: one-time and then

Feedback: Remote start ON tones.

Notes: Re-starts the remote start runtime counter if remote start

is active. Note: If remote start is not active, the 2-WAY

remote will respond with error tone.

Aux 1

Press one time and then press ... Command:

The screen will show a text of the item activated Notes:

This is an optional feature. See your sales rep/installer

Cabin temperature

Command: Press one time, then Hold for 1.5 seconds. Screen will display current in cabin temperatue. Feedback:

Cabin temperature is displayed on the remote. LED lights Notes:

up to indicate a range.

Sensor Bypass

Command: Press **I** two-times and then

Feedback: Screen will display text of sensor bypass

Notes: Available when armed only: bypasses warn triggers.

Send again to bypass Warn & Full Trigger; Send again to turn bypass off and monitor sensors normally. For more

information, see Modified Arming Modes.

Valet mode

Command: Press I two-times and then

Feedback: Unlock Icon appears hollow and text states Valet when

entering Valet mode.

Unlock Icon appears solid and text states Valet when

exiting Valet mode

Notes: To enter or exit Valet mode, even if Armed. When enter-

ing Valet Mode the unlock LED blinks, and the remote beeps one time. When exiting Valet Mode the unlock

LED blinks and the remote beeps two-times.

Timer mode

Command: Press f two-times and then

Feedback: Small timer icon appears and text reads timer mode.

Notes: Enables or disables the remote start timer mode.

Aux 2

Command: Press two times and then press Feedback: Text will display the item activated

Notes: This is an optional feature. See your sales rep/installer

for details.

Armed status

Command: Press **f** two-times and then Hold for 1.5 seconds. Feedback: Icon on remote will flash showing current status Replays last Arm /Disarm status message received. Notes:

Armed (silent sensor modAux)

Command: Press **f** three-times and then

Image of hollow siren appears and text reads Silent Sen-

Notes: Arms the system; sensor Full Trigger will ONLY page the

remote and will not activate the siren/lights. Wired in-

puts will page and activate the siren/lights.

Car finder

three-times and then Command:

Icon of vehicle flashes and text Feedback: reads car finder. On

Vehicle: 1 long siren chirp and parking lights flash 10 times.

Arm/Disarm cancels the light flashes. Notes:

Smart start

three-times and then press Command:

Text reads Smart Start On Feedback:

Enables or disables the SmartStart feature. Notes:

Aux 3

three times and then press Command:

Feedback: Text will display the item activated

Notes: This is an optional feature. See your sales rep/installer

for details.

Runtime check

Command: Press **f** three-times, and then Hold for 1.5 seconds.

Feedback: Text reads runtime and displays time left

Notes: Runtime remaining is displayed on the remote. (See

page 28).

Armed (silent trigger moauxe)

Command: Press **f** four-times and then

Feedback: Text displays Silent Full

Arms the system; sensor and hardwire Full Triggers will ONLY page the remote and will not activate the siren/ lights. For more details see Silent Mode 2 section on

page 25.

Rear defogger

Notes:

Command: Press **f** four times, and then Only after remote

start is on.)

Feedback: Defogger icon appears on remote and text reads Defrost

On.

Notes: Automatically turns on during remote start.

Last trigger

Command: Press four-times and then hold for 1.5 seconds.

Feedback: Text scrolls last trigger.

Notes: Trigger refers to the remote tones and LED pattern gener-

ated by the last alarm trigger event.

Out of Range Notification

If a command is issued from the remote, but the remote is beyond the range of the vehicle to receive the command, the remote will respond with an Out of Range notification. If this occurs, the remote will emit a harsh tone and the out of range indicator will appear.

Since conditions will vary in different areas (ie: Weather, RF interference, etc) range may be affected and require you to be closer to the vehicle for successful transmission.

➤ System maintenance

The system requires no specific maintenance. Your One way remote is powered by small coin cell lightweight 3-volt lithium battery that will last approximately one year under normal use. The 1-way remote uses one CR2032 cell battery. The 2-way remote contains a non-replaceable rechargeable battery. When the battery begins to weaken, the operating range will be reduced.

➤ Charging the Battery

- Plug in the USB charger (alternately a standard mini USB cable connected to any standard USB port on any laptop or desktop computer can also be used (cable not included)).
- The LCD displays "CHARGE" while the battery level bars within the battery icon flash, displaying the current charge level as the battery charges.
- When charging is complete the LCD then displays "FULL".

Note: If the battery has been severely discharged all remote functions are disabled for a short charge period. The battery status outline flashes

and CHARGE is displayed on the LCD. Once the battery has accumulated enough charge for functionality, the LCD icons initialize with a beep sound, the battery status outline stops flashing and the remote becomes operational while still displaying CHARGE.



Warning! The temperature range over which the battery can be charged is 0°C TO 45°C (32°F TO 113°F). Charging the battery at temperatures outside this range may cause severe damage to the battery or reduce battery life expectancy.

Low battery indicator

When the batteries are low on the 2-way remote it will emit two groups of beeps, the battery icon will flash and the text will display low batt, the alarm then emits an additional chirp upon disarming of the alarm to let you know its time to change the battery. When the battery is low on the 1-way remote, the remote responds the same, but without the icons available on the two way remote.

Tune mode Note: The Arm/Disarm indicator indic

blanse to comit any additional chirps during disarm. Ask your autho-11:53 rized dealer if you have any questions.

XM1-1 CH-001

Bättery Replacement

Slide the door up to expose the battery beneath the holder. Remove the expined battery. Place the new battery into the remote control. When power is returned the remote control is ready for use. SOUND

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ALL

ALL

ALL

ALL



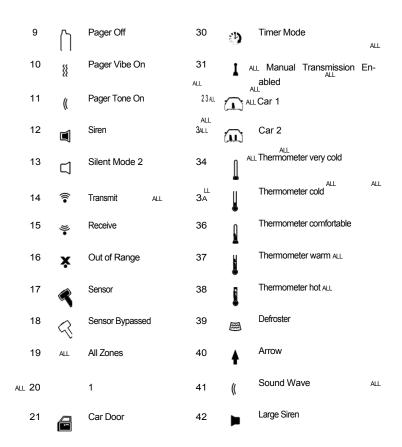
➤ LCD remote features

	1		Armed	22		Car Door (Zone bypass) ALL ALL
ALL	2		Locked	23		Hood (Trallger) ALL ALL
	3		disarmed ALL	24	\geq	Hood (Zone bypass)
	4	\bigcap	Unlocked	25		Trunk (Trigger)
	5	(()	Alarm	26	ŞŞ ALL	Trunk (Zone bypass) ALL
	6)	Remote Start	27 ALL		Home (Garage - Open)
	7		Battery Status	28		Home (Garage Close)
	8		Pager On	29	③	Small Remote Start

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ALL

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➤ Multi-car control capability

You can operate the 2-way remote control system for two cars, with full command capability for both vehicles.

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While holding a command button and transmitting, the car icon at the top of the remote control will blink in groups to indicate which Car is being controlled.

- Car 1: 1 blink
- Car 2: 2 blinks

To change the Car to be operated:

Two Way Remote

Press/hold the
button for 3 seconds or until the remarke beeps

and the text reads Car 1 or Car 2. Pressing the
button will scroll between the two.. This will indicate which car the remote currently operates.

One Way Remote

Press and hold the **f** button until the amber light blinks once or twice indicating current vehicle (one blink = car 1._{Aux} blinks = car 2) to scroll from one to the other press the button again.

Using the system

➤ Arming the system

To arm the system, press the button on the remote control.

The siren in the vehicle will "chirp" once and the parking lights will flash once. If the power door locks have been connected, the doors will lock. The system will automatically check for errors when it arms. The 2-way remote will "chirp" once and blink the LOCK indicator to

confirm arming. If no arm confirmation is received, the remote will give the Out-Of-Range signal.

If errors are found when arming:

If an alarm trigger zone - such as a door, the trunk, the hood, or a sensor, was active at the time of arming, the system will "bypass", or ignore, this trigger zone. This allows the system to continue to protect your vehicle using the remaining trigger zones.

You are notified of this active zone immediately after arming the system. The siren in the vehicle will "chirp" again and the parking lights will flash again. The Status LED indicator in the vehicle will blink in a pattern to indicate the active zone number error which was found (See Table of Zones on page 36). The 2-way remote control will sound a short "error" tone.

Arming without the chirp (Silent Arm):

Press the **f** button at the bottom of the remote once, and then press the **b** button. The system will arm without the confirmation chirp. The parking li ghts will flash once. The 2-way remote will blink the LOCK indicator to confirm arming. If no arm confirmation is received, the 2-way remote will give the Out Of Range signal.

➤ While the system is armed

· Fail-Safe Starter Kill

The starter is disabled by the system's Fail-Safe starter kill.

Alarm Responses

The security system can generate two levels of alarm: Warn Away - Soft

siren chirps and flashing parking lights.

The purpose of Warn-Away is to warn a would-be thief next to your vehicle that the vehicle is protected, but in a manner that does not call attention to it from more than a few feet away.

Full Alarm Trigger

Sounds the siren at maximum volume and flashes the parking lights. The default duration of the Full Alarm is 30 seconds. This can be programmed to any duration from 30 to 60 seconds manually. Ask your authorized dealer for details.

Pages the 2-way remote control. If in range, the two way remote will display what triggered the alarm.

Warn-Away response is triggered by:

- Lesser or lighter vibrations or impacts (detected by the Stinger Doubleguard shock sensor)
- Opening a door: the Progressive Door Trigger feature will sound the Warn Away response, followed immediately by Full Alarm
- Any attempt to start the car: the Progressive Ignition Trigger will first sound the Warn Away response, followed immediately by Full Alarm.
- An optional Proximity Sensor (508D) triggered in the outer zone.

Full Alarm response is triggered by:

- Heavier impact to the vehicle (detected by the Stinger Double-Guard shock sensor).
- · Opening the trunk or hood.
- · Opening a door: the Progressive Door Trigger feature will first

sound the Warn-Away response, followed immediately by Full Alarm.

 An optional sensor, such as an optional Proximity Sensor triggered in the inner zone.

Paging Signals

If the Full Alarm response is triggered, the 2-way remote control will be sent a paging signal by the in-car system.

Note: Call the police immediately if you witness a crime in progress. Paging range varies with terrain and environmental conditions.

➤ Modified Arming Modes

The Responder LC gives you an unprecedented level of control over how it will protect your car. "Normal arming" means that all the Responder LC security features are active automatically. You can turn some security features off on a one-time basis.

Turning off the Warn Away response

After arming, you can turn off the Warn-Away response on a one-time basis.

- 1. Press the **f** button twice.
- 2. Press the \bigcap button.

The LED flashes and the remote sounds an error tone.

Now, slight impacts or vibrations will not trigger Warn-Away. Heavy impacts will still trigger Full Alarm.

Note: The next time you arm the system, Warn-Away will work normally.

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Turning off the Sensor Full Trigger response

You can completely disable the Stinger Doubleguard Shock Sensor and any added optional sensors on a one-time basis. The entry points (doors, hood, etc.) will still be monitored. All sensors will not be able to trigger the Wam-Away response or the Full Alarm response.

- 1. After disabling Warn-away response, press the **f** the button
- 2. Press the igapha button.

Note: The next time you arm the system, the shock sensor will work normally.

Silent Mode 2 - Turning off the siren

You can turn off the vehicle siren and flashing lights on a one-time basis, leaving the system's paging feature as the only alarm response.

Note: Call the police immediately if you witness a crime in progress. Paging range varies with terrain and environmental conditions.

Full Silent Mode.

In this mode, the siren cannot be triggered, but any trigger will cause the 2-way remute to be paged.

Press the \mathbf{f} button four times, and then press the seconds. \mathbf{h} within five seconds.

Sensor Silent Mode

In this mode, a sensor cannot trigger the siren, but will cause the 2- way remote to be paged. All entry points (doors, hood, etc.) will still trigger the siren.

Press the **f** button three times, and then press the **b** button. Note: The next time you arm the system, it will function normally.

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➤ Disarming the System

While the system is armed normally:

Press the button once.

The siren in the vehicle will "chirp" twice, and the parking lights

flash. The 2-way remote will "chirp" **twice** and LED indicator the will blink.

If you hear **four** chirps on disarming, the system was triggered in your absence. Immediately look at the Status LED in the vehicle and count the number of flashes between pauses. This number is important, it tells what triggered your alarm. See Disarming section under Diagnostics on page 34 for more details.

If you hear **five** chirps on disarming, the system was repeatedly triggered in your absence. Immediately look at the Status LED in the vehicle and count the number of flashes between pauses. This number is important, it tells what triggered your alarm.

The door locks (if connected) will unlock, and the parking lights will flash.

While the arm is triggering:

Press the button on the remote. The siren will stop sounding and disarm the a

larm system.

High-Security Disarming

If you want Full Alarm response to stop without unlocking the doors, press the button. The system will re-arm and the current alarm response will reset.

➤ System override

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To disarm the system without a remote control:

You will need to use your Override Switch located on your systems control center (see diagram below) to disarm the system. The Override Switch disarms the system only if you have the vehicle key.



To check proper operation:

Open the d

Op

Immediately insert the key into the grifton and turn it to the position. (all the indicators in t he dash will turn on).

Press the Override Switch once.

Note: The Override Switch for the state of the override Switch for the override Switch for the state of the state of

Note: The Override Switch feature allows you to select a specific number of presses needed to disarm the alarm. If the Override Switch has been programmed to a new number of presses by your authorized dealer, that number should be indicated below.

Override Switch Number _____

Using the remote start

➤ Before using your Remote Start

Read this user guide, including the Warnings section at the beginning.

Ensure that the vehicle is parked in the open air and not in a garage. To use your remote start to pre-warm or pre-cool your vehicle, remember to set the climate controls to the desired settings before shutting off the engine.

➤ Remote starting your vehicle

- Press the button on the remote control. The vehicle parking lights flash.
- On the 2-way remote, the Remote Start indicator appears and ascending Remote Start tone plays.

The preset remote start run time is 12 minutes. This can be changed to between 12 and 60 minutes (see your authorized dealer for programming changes).

Your system has a feature (if programmed on) that will automatically notify you when the run time is running low. When 9 minutes (of the 12 minute default) runtime has elapsed, the system sends the 2-way remote control a paging signal.

➤ Points to remember

If the hood is open or is the brake pedal is pressed, the vehicle will not start using remote start. The remote starter shuts down:

- When the brake pedal is pressed
- · The hood is opened

- If the alarm is triggered when armed.
- When the Remote Start command is sent again from a remote control

➤ Runtime Check

To check the amount of runtime remaining (2 way remote only):

After the vehicle is remote started, press the **f** button three-times and then hold until the remote beeps, and then release. The display will show a text indicating remaining run time.

➤ Manual transmission

If the vehicle has manual transmission the proper steps must be followed before leaving the parked vehicle or the remote start feature is disabled.

- 1. Put the transmission in neutral.
- 2. Press on the vehicle's foot brake.
- 3. Apply the emergency brake.
- 4. Release the vehicle's foot brake. Note: Pressing the brake again after this step will disable the remote start feature.
- 5. Within 15 seconds activate the remote start from the remote.
- 6. The parking lights will flash 5 times confirming that the remote start is active.
- 7. Turn off the ignition (the car should stay running when key is turned off).
- 8. Exit the vehicle and close the door.
- 9. Arm the alarm (the vehicle should shut off when arming the system).

You can now remote start the vehicle. If a door is opened or if the alarm

is triggered before the next remote start activation the system will not remote start.

To drive your vehicle after it has been remote started:

- 1. Get in without stepping on the brake.
- 2. Insert the ignition key and turn it to the ON position.
- 3. Now, step on the brake.

The remote control will play the remote start shutdown tone. You have now taken direct control from the remote start system.

➤ Timer mode

To activate the runtime of the vehicles engine during remote start:

- 1. Press the **f** button two-times and then
- 2. The vehicle will confirm with 4 fast parking light flashes.
- The system will start every 3 hours until canceled by the brake, hood, or neutral safety shut-down wires. The remote will respond with the Start and Stop remote start notification during each Start and Stop of the Vehicle while in Timer mode.

Important! Timer Mode should be used only in open areas. Never start and run the vehicle in an enclosed space such as a garage or carport.

To exit timer mode, Press the **f** button two-times and then **3** again.

➤ Turbo timer mode

Turbo timer mode keeps the engine running after arriving at your destination for a programmable period of 1, 3, 5 or 10 minutes. This allows the system's timer to conveniently cool down the turbo after you have

left the vehicle.

Transmit the time...mode feature with the remote while the engine is running, press **f** two-times and then After exiting the vehicle, arm the alarm and the vehicle will remain running for the programmed runtime. (The remote start feature is still enabled).

The system monitors the engine speed and will automatically shut the engine off if the RPMs rise above or fall below the programmed levels. This feature prevents damage to the motor due to fuel delivery system failures or other problems which may cause the engine to race.

Note: To enter turbo timer mode with a manual transmission, perform the manual transmission procedure (See p.29), with the door open.

Rear defogger

The rear defogger (if connected) is programmed to automatically activate when remote start is turned on. If the interior cabin temperature is above 55° F the defogger will not activate.

To manually activate the rear defogger after remote start is on:

Press **f** four times, and then

Valet take-over

The Valet take-over feature allows the vehicle to remain running after the key has been removed from the ignition. This feature is useful for occasions when you wish to exit and lock the vehicle for short periods of time, but would like to leave the motor running and the climate controls on.

To perform Valet take-over:

- Before turning off the engine, press and release on the transmitter. Then wait a few seconds.
- 2. Turn the ignition key to the OFF position (The engine will stay running).
- 3. The engine will run until the pre-programmed time elapses or a shut-down input is received.

Note: To enable Valet take-over with a manual transmission, open the door when going into a manual transmission mode. After you exit the vehicle you can arm the alarm and the car will remain running. If the vehicle shuts down when arming, then the unit did not enter the valet take-over mode.

Safety	/ features			
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This system has several important safety features to ensure proper operation of the motor and prevent accidental damage to the engine or its components.

➤ Starter anti-grind circuitry

Whenever the vehicle is remote started, advanced anti-grind circuitry prevents the starter from engaging, even if the key is turned to the start position. This prevents damage to the starter motor if the key is turned to the start position during remote start operation.

Note: Anti-grind circuitry only works when the remote start system is operating the motor and the Failsafe® Starter Kill relay is installed.

➤ Disabling the remote start system

This feature allows the remote start unit to be temporarily disabled to prevent the vehicle from being remote started accidentally. This feature is useful when the vehicle is being serviced or stored in an enclosed area.

To disable the remote start, move the shutdown toggle switch to the OFF position. Check with your installer for the location.

Location of Shutdown	Switch	
	SWILCH	

Diagnostics

The microprocessor at the heart of your system is constantly monitoring all of the switches and sensors connected to it. It is designed to detect any faulty switches and sensors and prevent them from disabling the entire system. The microprocessor will also record and report any triggers that occurred during your absence.

Refer to System Status Chirps and Table of Zones sections of this guide for diagnostic information.

➤ Arming

If the security system is armed at the same time that an input is active (such as a door opening or sensor triggering), you will hear one siren chirp to indicate arming and a second siren chirp to indicate Bypass Notification.

A Bypass Notification chirp means that the security system ignores the input that was active when the system was armed, until that input ceases. Three seconds after that input ceases, the security system will resume normal monitoring.

For example: if your vehicle has an interior light exit delay and you arm your security system before the interior light turns off, you may hear a second Bypass Notification chirp.

Once the light turns off, however, the security system resumes normal monitoring.

Note: Bypass Notification does not occur when the system is in Silent Mode or if the notification chirps have been programmed off by the installer.

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➤ Disarming

Extra chirps heard when disarming the system are the Tamper Alert. If four chirps are heard when disarming the system, then the security system was triggered in your absence.

If five chirps are heard when disarming the system, the system was triggered so many times that the Nuisance Protection® Circuitry has bypassed the intended zone. In either case, the status LED will indicate which zone was involved (see Table of Zones).

The security system will retain this information in its memory, and chirp four or five times each time it is disarmed, until the next time that the ignition is turned on.

➤ System status chirps

The siren will chirp when arming/disarming the system. The pattern of chirps will audibly report the system's status as described below.

Action	Number of Chirps	Description	
Arm	1 System armed		
Arm	1 (3-second delay)	System armed with bypass notification	
Disarm	2	System armed	
Disarm	4	System disarmed with Tamper Alert	
Disarm	5	System disarmed	

➤ Table of zones

A zone is represented by the number of LED flashes used by the system to identify a particular type of input. Standard input assignments are listed in the following table, along with spaces to write in any optional sensors or switches that have been installed.

Zone	Description	Dealer installed options
1	Trunk Pin	
2	Instant trigger: a heavier impact detected by the shock sensor	
3	Door switch trigger	
4	Instant trigger: For optional sensors	
5	Ignition trigger	
6	Hood Pin	

➤ Interpreting zone diagnostics

Warn Away responses are not reported by arming or disarming diagnostics. If you receive a Bypass notification when arming or a Tamper Alert notification when disarming, look at the LED.

Active or triggered zones will be indicated by a pattern of blinks by the LED.

For example: If zone 3 was active or triggered, the LED will blink three times with a two-second pause. Then it will blink three times again, and repeat until the ignition is turned on.

➤ Nuisance prevention® circuitry

Your system has Directed's Nuisance Prevention® Circuitry (NPC). It prevents annoying repetitive trigger sequences due to faulty door pin switches or environmental conditions such as thunder, jackhammers, airport noise, etc.

For example: If the alarm triggers three times within a 60-minute period and each time the same sensor or switch triggers the alarm, NPC will interpret those triggers as false alarms. After the third trigger, NPC ignores, or bypasses, that sensor or switch (along with any other sensors or switches sharing the same zone) for 60 minutes.

If the bypassed sensor tries to trigger the security system while it is being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that is continually being triggered will remain bypassed.

The vehicle doors are protected by NPC differently. If your security system is triggered by an open door for three full cycles, the system will bypass the doors until the trigger ceases.

Owner recognition

Owner Recognition lets up to four users of the system have unique settings that meet their specific needs. It is almost like having four separate alarms in your vehicle, one for each user. This feature is only available to authorized dealers using the Bitwriter or Bitwriter 2 program tool.

Rapid resume logic

This Directed system will store its current state to non-volatile memory. If power is lost and then reconnected the system will recall the stored state from memory.

For example, if the unit is in Valet Mode and the battery is disconnected for any reason, such as servicing the car, when the battery is reconnected the unit will still be in Valet Mode. This applies to all states of the system including arm, disarm, and Valet Mode.

➤ System

Your system will automatically enter Power Saver Mode while armed or in Valet Mode, after a period of time in which no operation has been performed. This lowers the current draw on the vehicle's battery. Power Saver Mode takes over under the following conditions:

Power Saver when the system is armed: After the system has been armed for 24 hours the LED will flash at half its normal rate, decreasing the system's current draw.

Power Saver in Valet Mode: When the system enters Valet Mode the Status LED on the Responder LE control center illuminates steadily. If the vehicle is not used (ignition is not turned on) for a one hour period while the system is in Valet Mode, the status LED will shut off. If the system remains in Valet Mode, the LED will come back on the next time the ignition is turned on and then back off.

➤ 2-way remote

Your Responder LE 2way remote control has a feature called remote power save mode. When programmed ON under remote options, the remote will conserve power by disabling the paging function if unused for more than 72 hours. Pressing any button on the remote will restore the paging function.

The default setting is ON. See Remote control programming section of this guide or ask your dealer for details on how to program.

Programming options

Your system has many custom programmable options. Some may require installation labor. Ask your authorized dealer for details.

The following is a list of the programmable options, with the factory settings in Bold.

 Active arming (remote only) passive arming with or without locking the doors (automatic arming without locking the doors 30 seconds after the last door has been closed), or Auto Re-arm with or without locking the doors (Automatically arms 60 seconds after disarm if no door is opened).

Arming/disarming siren chirps ON with or without Warn-away chirps, Or OFF with or without Warn-away chirps.

Ignition controlled door lock feature ON or OFF: When this feature is programmed on, the doors will lock three seconds after the ignition is turned on, and unlock when the ignition is turned off.

If your installer is programming the security system with the Directed Bitwriter®, ignition lock and unlock are independent features that can be programmed separately.

- Panic mode enabled/disabled when the ignition is turned on or completely turned OFF. (Some states have laws against sirens sounding in moving cars.)
- Full trigger response 30 or 60 seconds: This determines how long the full triggered sequence lasts. Some states have laws regulating

- how long a security system can sound before it is considered a nuisance.
- If your installer is programming the security system with the Directed Bitwriter®, the full triggered response can be programmed for any duration ranging from 1 to 180 seconds.
- Siren tones and chirp volume: The output of the Revenger™Soft Chirp™ siren consists of six different tones in sequence. Any of these tones can be eliminated by a dealer, resulting in a unique, easily identifiable siren sound. The chirps can be either full volume or 6 decibels quieter than the full alarm blast.
- Comfort closure is a programming option which closes the vehicle's windows after remote locking.

Security & convenience expansions

Listed below are some of the many expansion options available. Please consult your dealer for a complete explanation of all the options available to you.

Audio Sensor: Metal on glass, glass cracking, and breaking glass produce distinctive acoustic signatures. The 506T audio sensor uses a microphone to pick up sounds, then analyzes them with proprietary acoustic software to determine if the glass has been struck.

Backup Battery: The 520T keeps the system armed, triggers the alarm and keeps the starter interrupt active if main battery is disconnected.

Digital Tilt Sensor: The 507M tilt sensor can be added to your system to protect your car when its parked. It can protect your vehicle from being lifted and provide protection for your expensive rims.

Field Disturbance Sensor: An invisible dome of coverage is established by installing the 508D " radar" sensor. Your system can react to any intrusions into this field with the full triggered sequence.

Power Locks: This system offers lock outputs that can control some manufacturers' power door lock systems. For other systems, additional parts may be required.

Hood Lock: Prevents the vehicle's hood from being opened without a key, keeping thieves away from the system's siren, the battery connections, and other components under the hood.

Power Trunk Release: The accessory output of the system can operate a factory power release for the vehicle's trunk or hatch. Although the

on-board relay can control most power trunk releases, sometimes an optional relay is required. If the factory release is not power-activated, Directed®'s 522T trunk release solenoid can often be added.

Power Window Control: Automatic power window control is provided with the 529T and 530T systems. These can operate power windows, and can roll them up automatically when the system is armed, roll them down, or both up and down.

Ultrasonic Cabin Sensor: Using the 509U Ultrasonic cabin sensor provides a field of protection inside the car to protect your belongings.

Glossary of terms

2-Way Remote: A hand-held, remote control which operates the various functions of your system and receives feedback and pages from the alarm system.

Control Center: The control center contains the system's radio-frequency antenna, the valet and override switch, 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.

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 alarm's Functions.

Failsafe® Starter Kill (if equipped): An automatic switch controlled by the security system which prevents the vehicle's starter from cranking whenever the system is armed. The vehicle is never prevented from cranking when the system is disarmed, in Valet® Mode, or should the starter kill switch itself fail. Your system is ready for this feature, however installation of this feature may require additional labor.

Input: Any physical connection to the security system. An input can be provided through a sensor, pin-switch or by existing systems in the vehicle, such as ignition or courtesy lights.

In-vehicle status LED: A light used to indicate the status of your system. It is located on your systems control center.

Shock Sensor: This system has a dual zone shock sensor. This sensor is mounted in the vehicle and designed to pick up impacts

to the vehicle or glass.

Trigger or Triggered Sequence: This is what happens when the alarm "goes off" or "trips." The triggered sequence of your system consists of the siren sounding and parking lights flashing for the programmed duration.

Valet Button: A small push button switch located on your systems control center. It is used to override the starter interrupt when a 2-way remote is lost or damaged, or to enter or exit Valet Mode.

Warn Away® Response: Light impacts to the vehicle generate the Warn Away® Response, which consists of several seconds of horn honks and flashing parking lights.

Zone: A zone is a separate input that the alarm can recognize as unique. Each input to the system is connected to a particular zone. Often, two or more inputs may share the same zone.

Disarm LED will blink for 1

second with no sound.

second with no sound.

one time and then press

Silent Disarm

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 WILL BE DENIED. This warranty is non-transferable and is automatically void if: the original purchaser has not completed the warranty card and mailed it within ten (10) days from the date of purchase to the address listed on the card; 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.

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Make sure you have all of the following information from your authorized Directed dealer:

A clear copy of the sales receipt, showing the following:

0	Date of purchase
0	Your full name and address
0	Authorized dealer's company name and address
0	Type of alarm installed
0	Year, make, model and color of the automobile
0	Automobile license number
0	Vehicle identification number
0	All security options installed on automobile
0	Installation receipts

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The company behind this system is Directed Electronics

Since its inception, Directed Electronics 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.

Directed is ISO 9001 registered.

Quality Directed Electronics products are sold and serviced throughout North America and around the world.

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

Designed and Engineered in the USA



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