



Model 4103  
Remote Start  
Owner's Guide

***Directed***<sup>®</sup>  
E L E C T R O N I C S

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# Government Regulations

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

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

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

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

## Warning:

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



## **Warning! Safety first**

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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.

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, automatic transmission vehicles only. Use of this product in a standard transmission vehicle is dangerous and contrary the product's intended use.



# What is Included

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- The control module
- An HX receiver/antenna
- Two 4-button transmitters (P/N 474L)
- A push-button Valet switch
- Your warranty card
- A shut-down toggle switch

## Important Information

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Congratulations on the purchase of your remote start keyless entry system. This system has been designed to provide years of trouble-free operation. By carefully reading this owner's guide prior to using your system, you will maximize the use of this system and its features. Additional or replacement copies of this guide can be printed by accessing the Directed Electronics internet website at [www.directed.com](http://www.directed.com).

### ➤ System Maintenance

The system requires no specific maintenance. Your remote is powered by a miniature 3V lithium battery that lasts approximately one year under normal use. When the battery weakens, the LED on the remote will dim and operating range will be reduced.

### ➤ Your Warranty

Your warranty card must be completely filled out and returned within 10 days of purchase. Your product warranty will not be honored if your warranty card is not returned. Make sure that you receive the warranty card from your dealer.


# Transmitter Functions

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The receiver uses a computer-based learn routine to learn the transmitter buttons. The transmitter buttons indicated in all of the instructions in this manual correspond to a Standard Configuration transmitter.

## ➤ Standard Configuration




### Button

The locking and panic functions are controlled by pressing  on the transmitter for one second.

### Button

The unlocking function is controlled by pressing  on the transmitter for one second.

### Button

Silent Mode™ and an optional auxiliary function are controlled by pressing . Silent Mode works by pressing  for less than one second. The optional trunk release output is controlled by pressing and holding  for 1.5 seconds.

### Button

The remote start function of your system is controlled by pressing this button for one second.


### Buttons + +

When simultaneously pressed these buttons control the rear window defogger during remote starting.


# Using Your System

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## ➤ Locking

Pressing  for one second locks the system by activating the starter kill and locking the doors (if the door locks are connected). The horn will honk (if connected) and the parking lights will flash once to confirm locking of the system. The Failsafe® Starter Kill (if installed) will also prevent the vehicle's starter from cranking.

## ➤ Unlocking

Pressing  for one second unlocks the doors (if connected). The horn will honk twice (if connected) and the parking lights will flash twice to confirm unlocking of the system. The optional Failsafe® Starter Kill will be deactivated.

## ➤ Disabling the Starter Kill without a transmitter.

If your remote transmitter is lost or damaged, you can manually override the starter kill. To do this, you must have the vehicle's ignition key and know where the Valet button is located. Be sure to check with the installer for the location of the Valet button.






To override the starter kill, turn the ignition on and press the Valet button within 10 seconds. The vehicle should start. If it does not start, you may have



waited too long; turn the ignition off and repeat the process.

Location of Valet button: \_\_\_\_\_

## ➤ Panic Mode

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your transmitter. Just press  for 1.5 seconds to enter Panic Mode. In Panic Mode, the horn will honk and the parking lights will flash for 30 seconds. To stop Panic Mode at any time, press , or  on the transmitter.



**Note:** In order for Panic Mode to be effective, the vehicle's horn (or optional siren) as well as the vehicle's parking lights must be connected.

## ➤ Remote Start

This feature allows you to remotely start and run your vehicle for a programmable period of time. This makes it possible to warm up the engine, as well as adjust the interior temperature of the vehicle with the climate control system. If interior heating or cooling is desired, the climate controls must be preset, and the fan blower must be set to the desired level prior to remote starting the vehicle.

**Important!** (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the key in the ignition.

### To remote start the vehicle:

1. Press the  button twice for 1 second on the transmitter.
2. The parking lights will flash to confirm that the vehicle will attempt to start.
3. Release the  button as soon as the parking lights flash. (In gasoline vehicles, the engine will start 4 seconds after the parking lights flash. In diesel vehicles, the engine will start when the WAIT-TO-START timer has expired.)

- Once the vehicle has started, it will run for the pre-programmed period of time (12, 24, or 60 minutes) or until a shutdown input is triggered.

## When you are ready to drive the vehicle:




1. Insert the ignition key and turn it to the ON (not the START) position.
2. Press the brake pedal.






**Note:** If the brake pedal is pressed before the key is in the ON position, the engine will shut down.

While the vehicle is running during remote start operation, the system will monitor the vehicle and will automatically shut down the engine if the system receives any of the following shut-down inputs:

- The brake pedal is pressed.
- The hood is opened.
- The shutdown toggle switch is put into the OFF position.
- The pre-programmed run time (12, 24, or 60 minutes) has elapsed.
- Transmitter button  is pressed 1 time to start the vehicle.




## ➤ Rear Defogger

To turn the rear defogger output OFF:

1. Simultaneously press & release the  +  +  buttons on the remote control.
2. The lights will flash 2 times.
3. The rear defogger output will no longer activate when the vehicle is remote started.

**Note:** If the remote start is on the parking lights will turn off then flash 2-times before returning to their normal output and the defogger output, if active, will cease.

### To turn the rear defogger output ON:


1. Simultaneously press & release the  +  +  buttons on the remote control.
2. The lights will flash 3 times.
3. The rear defogger output will once again activate when the vehicle is remote started.

**Note:** If the remote start is on the lights will turn off then flash 3-times before returning to their normal output and the defogger output will activate as programmed.

### ➤ 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:

1. Before turning off the engine, press and release  on the transmitter for 1 second.
2. Turn the ignition key to the OFF position. (The engine will stay running.)
3. The vehicle will run for the pre-programmed period of time (12, 24, or 60 minutes) or until a shutdown input is triggered.




## ➤ Car finder



Car finder allows you to locate your vehicle, by having the system flash the parking lights on your vehicle..

### To activate:

1. Press and release the  and  buttons at the same time.
2. The lights flash 5 times slowly allowing you to locate your vehicle.

## ➤ Timer Mode

By pressing the remote  and  buttons the parking lights will flash 4 times and then start the vehicle and run for the set duration. The remote start can be shut off by the transmitter by pressing the remote start button  and remain in timer mode, but if any other shut down zones or the ignition becomes active the timer mode will cancel.

1. Press Timer mode buttons.
2. The vehicle will confirm with 4 parking light flashes.
3. A 1-second delay will start.
4. The system will start the car and will run for the specified duration, unless shut down by the remote start button . If shut down with the remote start button  the system will remain in timer mode.
5. The system will start every 3 hours until canceled by the brake, hood, or neutral safety shut-down wires.

**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, turn the ignition switch on any time the engine is running. The parking lights will flash 4 times, indicating timer mode

has been exited.

### ➤ **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 optional Failsafe® Starter Kill relay is installed.

### ➤ **Disabling the Remote Start system**

This feature allows your system's remote start unit to be temporarily disabled to prevent the vehicle from being remote started accidentally. This feature is useful if 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. The switch can be installed in a location of your choice. Check with your installer for recommended locations.

Location Of Shutdown Switch \_\_\_\_\_



## Rapid Resume Logic

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This Directed Electronics 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. This means if the unit is in *Locked 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 *Locked Mode*. This applies to all states of the system.

# Programming options

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Programming options control your system's normal, operational set-up. Most options do not require additional parts, but some may require additional installation labor. This system's programming options are listed below, with the factory default settings in **bold**:

- **12**, 24, or 60 minute run time. your system can be programmed to allow the vehicle to run for 12, 24, or 60 minutes when remote started.
- 3, 6, 9, or **12** minute timer mode run time. Your system can be programmed to allow the vehicle to run for 3, 6, 9, or 12 minutes when remote started in timer mode. Can be set up to 16 minutes by your installer.
- Comfort closure is a programming option which closes the vehicle's windows after remote locking.
- Parking lights **flashing** or constant. Your system can be programmed to either flash or to turn on the parking lights constantly during the entire remote start operation.
- Ignition switch-controlled door-locking **on** or off. With this feature on, the doors will lock 3 seconds after the ignition key is turned on, and unlock when the ignition key is turned off.
- The horn honk confirmations for locking and unlocking can be programmed **on** or off. In order for this feature to be programmed on, the horn must be connected to the system.

# Glossary of Terms

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**Control Unit:** 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 system functions.

**Failsafe® Starter Kill:** An automatic switch controlled by your 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 if the starter kill switch itself fails. Your system has feature-ready circuitry for the starter kill, however installation may require additional labor.

**LED:** A red light mounted on the main unit.

**Transmitter:** A hand-held, remote control which operates the various functions of your system.

**Valet Button:** A small push button mounted at a discretionary location inside the vehicle. It is used to override the Failsafe® Starter Kill when a transmitter is lost or damaged.

## Convenience Expansions

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Listed below are some of the many expansion options available for use with your system. Some options may require additional parts and/or labor. Please consult with your dealer for a complete list of options available for use with this system.

**Power Door Lock Control:** Your system is capable of controlling many types of power door lock systems; however, some door lock systems may require extra parts. Consult with your dealer to determine which type of locks your vehicle uses. The system can be programmed to lock the doors when the ignition is turned on and to unlock them when the ignition is turned off.

**Power Trunk Release:** The system's auxiliary output can be programmed to operate a factory power release for the vehicle's trunk or hatch. If the factory release is not power-activated, Directed Electronics 522T trunk-release solenoid can often be added.

**Power Window Control:** Power window control is provided with Directed Electronics 529T or 530T systems. The 529T system will roll up two windows automatically when the system is armed, or roll two windows down by using the transmitter. The 530T will roll two windows both up and down. The 530T also provides one touch switch operation.









## Quick Reference Guide

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### To lock using your remote

- To lock the system press  for one second. The doors will lock (if connected). The vehicle's horn (if connected) will honk and the parking lights will flash once to confirm arming.


### To unlock using your remote

- To unlock the system press  for one second. The doors will unlock (if connected). The vehicle's horn (if connected) will honk twice and the parking lights will flash twice.

### Disabling the Failsafe® Starter Kill without a transmitter

- Turn on the ignition. Press and release the Valet button within 10 seconds. The vehicle should start.


### To remote start the vehicle

- Press  for 1 second. The parking lights will turn on (if connected) and the vehicle will start and run for the programmed duration.

### To activate Panic Mode

- Press and hold  for 1.5 seconds.

### To activate Timer Mode

- Press  and  to start the vehicle, and run it for the set duration.




## To disable the remote start system




- To disable the remote start, move the shutdown toggle switch to the OFF position.

Location of Shutdown Switch \_\_\_\_\_

## Valet Takeover

- Press and release  on the transmitter twice in 3 seconds. Turn the ignition key to the OFF position. Once the vehicle has started, it will run for the pre-programmed period of time (12, 24, or 60 minutes).

## Rear Window Defogger

- Press the ,  and  buttons simultaneously to turn the defogger on or off when remote starting. When a remote start is initiated, the parking lights will flash 2-times if the defogger is set to off, and will flash 3-times if the defogger is set to on.



Cut along the dotted line and fold to keep in purse or wallet for a quick and easy reference.





# Limited lifetime consumer warranty

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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.

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. Product(s) sold outside of the United States of America are sold "AS-IS" and shall have NO WARRANTY, express or implied. 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.

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

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

- o Date of purchase
- o Your full name and address
- o Authorized dealer's company name and address
- o Type of alarm installed
- o Year, make, model and color of the automobile
- o Automobile license number
- o Vehicle identification number
- o All security options installed on automobile
- o 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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E L E C T R O N I C S

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