

# Congratulations

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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. For more information please visit us online at:

[www.automatecarsecurity.com](http://www.automatecarsecurity.com).

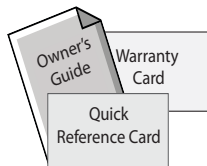
For any additional questions please contact your authorized Directed dealer or Directed at 1-800-753-0600. Additional support is also available at:

<http://support.directed.com>.

## What's included

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- Two 4- button remote controls (P/N 474A)
- Your warranty registration card
- Quick reference card
- This owner's guide



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# Important information

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## Government Regulations and Safety information



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

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

## Your warranty

Your system comes with a warranty. 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. Your product warranty must be validated within 10 days of purchase. You can validate online at: **[www.prodregister.com/automate](http://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](http://www.directedstore.com)** to order. Your 1-way replacement part number is 474A.

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# Getting Started

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## System maintenance

The system requires no specific maintenance beyond battery replacement for the remote controls. Your remote is powered by a coin cell battery (3V CR2032) that lasts approximately one year under normal use. When the battery begins to weaken operating range is reduced and the LED on the remote dims.

## Battery replacement

Locate the small slot on the side of the remote control. Insert a small slotted screwdriver or equivalent tool into slot and pry the case apart. Replace battery while verifying the correct polarity and then snap case together.


# Remote control functions

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The remote buttons are used to send commands to the system. The buttons indicated below are for standard configuration.

## Standard configuration

### Button

The lock function is controlled by pressing  on the remote control for one second. When held for more than 1.5 seconds, Panic is activated.

### Button

The unlocking function is controlled by pressing  on the remote control for one second. You can also turn Panic off with this button.

### AUX Button

Silent Mode™, and an optional auxiliary function are controlled by pressing **AUX**. Silent Mode works by pressing **AUX** for less than one second before locking or unlocking.

An optional auxiliary function such as trunk release may be controlled by pressing and holding **AUX** for 1.5 seconds.

### Button

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

### and **AUX** Buttons

Car Finder is controlled by pressing these two buttons.

### and and **AUX Buttons**

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

**Important note:** Defogger is an optional feature. Additional parts and labor may be required. See your Directed dealer for details.


### and **Buttons**

Timer mode is activated when these buttons are pressed simultaneously.

# Using the system


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## Locking

Pressing  for one second locks the system (if the door locks are connected). The horn honks and the parking lights flash once to confirm the system is locked. The Failsafe® Starter Kill also activates and prevents the vehicle's starter from cranking.

**Important note:** Horn honk and Failsafe are both optional features.

## Unlocking

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




## Disabling (optional) Starter Kill

If your remote control 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 and release the valet button once 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 remote control. 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 remote control.

**Note:** In order for Panic Mode to be effective, the vehicle's horn (or optional siren) and 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, and 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.



**Warning!** (1) Never remote start your vehicle when the keys are in the ignition, except when performing Valet Take-Over, and (2) Never start the vehicle if it is not in PARK or NEUTRAL

### To remote start the vehicle:

- Press the  button on the remote control for 1 second.
- The parking lights flash to confirm that the vehicle is attempting to start. In gasoline vehicles the engine will start 4 seconds after the parking lights flash, in diesel vehicles the engine starts after 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.




**Warning!** It is unsafe to operate a vehicle's motor in a garage or other closed off area. Breathing the exhaust from the vehicle is hazardous to your health. Never activate the remote start in an enclosed space.

### 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. The remote start system shuts down and the engine continues to run because the ignition has been turned on.



**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 monitors the vehicle and automatically shuts down the engine if it 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.
- Remote control button  is pressed once.

## Rear Defogger (optional)

### To turn the rear defogger Off and On:

1. Simultaneously press & release the  +  + **AUX** buttons on the remote control.
2. The lights flash 2 times when the defogger is turned On, and 3 times when it is turned Off.

If the rear defogger is On, it activates when the vehicle is remote started, if it is Off it does not activate when remote started.


**Note:** When turning the defogger Off, if remote start is On the lights turn Off then flash **2- times** before returning to normal. The defogger output is no longer active.

When turning the defogger On, if remote start is On the lights turn Off then flash **3-times** before returning to normal. 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 engine running and the climate controls on.

### To perform Valet Take-Over:

1. Before turning off the engine, press and release  on the remote control for 1 second or press and release the optional momentary switch, then wait 5 seconds.
2. Turn the ignition key to the OFF position. The engine will stay running until the pre-programmed time has elapsed or a shutdown input is received. (See the previous Remote Start section for a complete list of shut-down inputs.)


### Important: This

feature will not work if the brake pedal is being pressed.

## Car Finder




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

### To activate:

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

## Timer Mode

When you activate timer mode the system automatically starts the vehicle every three hours for a maximum of 6 starts. The pre-programmed engine runtime is 12 minutes.

- Press  and  simultaneously to activate timer mode. The parking lights flash four times, and after a 1 second delay the engine starts.
- To shutdown the engine, press the  button for 1 second. The system remains in timer mode and continues to start every 3 hours unless cancelled by turning on the ignition, activating the brake, or moving the shutdown toggle switch to the Off position.
- The parking lights flash 4 times indicating timer mode is exited.

**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.

## **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\_\_\_\_\_

# Owner Recognition

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Owner Recognition is a revolutionary feature available only from Directed. Using a Directed Bitwriter®, hand-held programming tool, your dealer can program many of the system settings. It is possible to program different settings for each transmitter used with the system. Then, whenever a specific transmitter is used, the system recalls the settings assigned to that transmitter. Owner Recognition lets up to four users of the system have different settings that meet their specific needs. It is almost like having four separate systems in your vehicle, one for each user.

**Important:** Owner Recognition cannot be programmed without a Bitwriter® and the necessary software. Check with your dealer for more information.

# 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. Can be programmed from 1 -60 minutes.
- 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 from 1-16 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 work, it 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 optional automatic switch controlled by your system which prevents the vehicle’s starter from cranking whenever the system is locked. The vehicle is never prevented from cranking when the system is unlocked, 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 and parts.

**LED:** indicator on your remote control that lights up when a button is pressed.

**Remote control:** A hand-held device 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 remote control is lost or damaged.



# Convenience Expansions

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Listed below are 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 locked, or roll two windows down by using the remote control. The 530T will roll two windows both up and down. The 530T also provides one touch switch operation.

# 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. 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 devices 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.

## **Caution**

This product is designed for fuel injected, automatic transmission vehicles only. Use of this product in a standard transmission vehicle is dangerous and contrary to the product's intended use.

# Patent information

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This product is covered by one or more of the following U.S. patents:

303,223	345,711	4,383,242	5,103,221	5,534,845	5,907,195
333,633	347,190	4,438,426	5,117,217	5,572,185	5,914,667
333,634	348,622	4,553,127	5,132,660	5,646,591	5,945,936
333,635	352,685	4,584,569	5,193,141	5,656,997	5,952,933
333,636	383,689	4,794,368	5,245,694	5,712,638	5,990,786
333,795	383,690	4,887,064	5,285,186	5,783,989	
340,000	390,830	4,897,630	5,315,285	5,798,711	
344,905	392,944	4,922,224	5,357,560	5,872,519	
345,317	4,327,444	4,987,402	5,532,670	5,900,806	

International Patents:

Australia: 694,925

Canada: 1,315,859 and 2,067,099

Taiwan: 91817

Other patents pending

