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

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Vehicle Remote Start System



The Finest In Security And Convenience For Your Vehicle.

www.automatecarsecurity.com

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

OWNERS' GUIDE

MODEL

4214A
4114A

Vista, CA 92081
www.directed.com

Congratulations

Congratulations on the purchase of your state-of-the-art remote start and keyless entry 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 the following website:

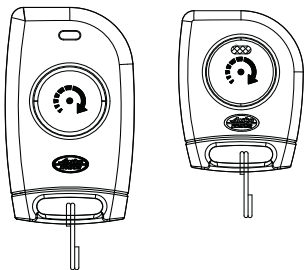
<http://www.automatecarsecurity.com> – For general and additional guide information.

For any additional questions please contact your authorized Directed dealer or contact Directed at **1-800-753-0600**. (U.S. only). Additional support is also available at: <http://support.directed.com>.

What you get

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

- 1- button 2- way and /or 1- button 1- way remote controls
- Owners Guide
- Your warranty card



Important Information

Government Regulations and Safety Information



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

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

Your Warranty

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

Replacement remote controls

If additional remote controls for 2 way (P/N 7213A) or 1-way (P/N 7113A) are desired, please see your authorized dealer or visit us at www.directedstore.com to order.

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Using Your System

Commands At a Glance

System State	Press/Release	Press/Hold for 3 sec.
ENGINE OFF	START ENGINE	CAR FINDER
ENGINE ON	UNLOCK DOORS	STOP ENGINE

Note: If a feature cannot be activated when performing a command with the 2-way remote control, a fault tone plays as an alert.

Start Engine

When the engine is OFF, press and release the remote control button to start the engine.

See "Using Remote Start" on page 6 for more feature details.

Unlock Doors

When the engine is ON with remote start, press and release the remote control button. The doors unlock, the parking lights flash, the horn sounds (if connected) as confirmation. The 7213A (2-way) remote control emits tones.

Note: Horn honk may be an optional feature that requires additional parts and labor.

Stop Engine

When the engine is ON with remote start, press and hold the remote control button until the transmit LED flashes fast. The engine stops running and the parking lights turn off. The 7213A (2-way) remote control emits tones.

Car Finder

When the engine is OFF, press and hold the remote control button for three seconds. The horn sounds once and the parking lights flash ten times. The 7213A (2-way) remote control emits a single tone.

Using Remote Start

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.

Starting the Engine:

1. Press and release the remote control button.
2. The engine will START and the parking lights will turn on. The 7213A (2-way) remote will also emit tones.
3. The parking lights stay on as visual confirmation while the engine is ON. The default runtime is 12 minutes and can be shortened or extended by the installer.

If a remote start configuration issue prevents the engine from starting, the parking lights flash a remote start fault report to identify the fault. See "" on page 9.

If you wish to warm or cool the vehicle interior set the climate controls to the desired temperature prior to starting.

Key Takeover

When you are ready to drive the vehicle:

1. Unlock the doors.
2. Enter the vehicle. Do not step on the foot brake.
3. Insert the key into the ignition and turn it to the run (not start) position.
4. Step on the foot brake. The remote start is disabled and the parking lights turn off.
5. Begin driving

Note	Some Push-to-start vehicles do not offer the key takeover function, instead the vehicle shuts down when the vehicle door is opened and the car needs to be started as normal.
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Safety Features

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

- Foot Brake is depressed
- Hood is open
- Shut down toggle switch is OFF
- Engine over-rev protection (Tachometer mode only)
- MTS mode is not enabled correctly

Pit Stop and Turbo Timer Modes

This remote start can keep the engine running during short trips away from the vehicle or to cool down turbo timers.

Enabling Pit Stop mode:

1. Park in a well ventilated area.
2. With the engine running set the parking brake and release the foot brake.
3. Press and release the remote control button, the parking lights turn on as confirmation.
4. Turn off the ignition and remove the key, the engine continues running.
5. Exit the vehicle, the engine runs for the programmed runtime.

Enabling Turbo Timer mode *:

Follow the same procedure above, however, in step 3, instead of pressing the remote control button, press and release the dash mounted

activation button* to enable Turbo Timer mode. The engine continues running for the shorter Turbo Mode runtime.

* Turbo Timer mode must be turned on and an optional activation button also installed by an authorized dealer.

Note: For Manual Transmission vehicles see "Manual Transmission Vehicles" on page 8.

Manual Transmission Vehicles

Manual Transmission Mode (MTS), Pit Stop mode, Turbo Timer Mode

Enabling MTS mode

1. Park in a well ventilated area with all the doors closed.
2. With the engine running, press the foot brake and set the parking brake.
3. Release the foot brake.
4. Press and release the remote control button, the parking lights flash quickly five times as confirmation.
5. Turn off the ignition and remove the key, the engine continues running.
6. Exit the vehicle.
7. When the doors are closed, the engine stops running, MTS mode is enabled.

Note: If enabling MTS mode has failed, the parking lights flash slowly 5 times, return to step 1 and repeat procedure.

Enabling Pit Stop mode:

Follow the previous Enabling MTS mode procedure, however, open a door prior to step 4. The engine continues running for the programmed runtime after the doors are closed.

Enabling Turbo Timer mode*:

Follow the previous Enabling MTS mode procedure, however, open a door prior to Step 4 then, press and release the dash mounted activation button*. The engine continues running for the shorter Turbo Mode runtime after the doors are closed.

* Turbo Timer mode must be turned on and an optional activation button also installed by an authorized dealer.

Optional Rear Defogger

If connected, the Defogger circuit automatically activates 10 seconds after remote starting the vehicle if the temperature is below 55°F.

Starter Anti-Grind Circuitry

This system includes an anti-grind circuit (optional relay is required) that can prevent damage to the starter motor if the key is turned to the start position while the engine is ON.

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

Disabling the Remote Start System

When the Shutdown Switch is set to the OFF position, remote engine starting is defeated. DO this when the vehicle is being serviced or driven by someone unfamiliar with remote start system operations.

Location Of Shutdown Switch: _____

Remote Start Faults

For user safety, the system must be properly configured or remote start will not activate. A Remote Start Fault may be caused by any of several configuration issues. Refer to the table below for the command type and parking light flashes that will identify the configuration issue and solution.

Flashes *	Possible Fault	Solution
5	Brake on	Release foot brake
6	Hood open	Close hood
7	After performing Remote Start command - MTS not enabled	Enable MTS mode
8	Toggle Switch off	Turn switch on

Rapid Resume Logic

This Directed system stores its current state to non-volatile memory. If power is lost and then reconnected the system recalls the stored state from memory. This means if the unit is in Locked Mode and the battery is disconnected for any reason, such as when servicing the vehicle, when the battery is reconnected the unit maintains Locked Mode. This applies to all states of the system.

Control Center

The control center is mounted high in the vehicle usually on the windshield in a location close to the rear view mirror. It consists of a antenna/receiver for communicating between the control module and remote controls, and a control button with status LED for programming system features.

Remote Pairing

Use this procedure to program remote controls to the remote start system

Prepare the vehicle system to be Paired with a new remote

1. **Turn** the key to the ON position.
2. Press/release once and then press/hold the control button on the system's Control Center. The status LED begins flashing in a sequence of 1 flash and the horn sounds once to confirm the system is ready for pairing.
3. Release the Control Center button.
4. Press/hold the remote button for 15 seconds. The LED patterns change while holding.
5. The horn emits 1 sound to confirm learning.
6. Repeat for each remote to be learned (up to four).
7. **Turn** the ignition off or wait 60 seconds to exit learning, the horn emits 2 sounds to confirm.

The learn routine Exits if any of the following occurs:

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

Programming Options

Programming options control your system's normal operational set-up. Most options do not require additional parts, but some may require installation labor.

The following is a list of the programmable options, with the factory 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 set up to minute increments by your installer.
- Parking lights flashing or **constant**. Your system can be programmed to flash or 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 key is turned off.

Important: The door lock option must be installed for this feature to work.

Glossary of Terms

Document Terminology

Control Module	The “brain” of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the system’s functions.
Remote Control	A hand-held, remote control which operates the various functions of your system.
Status LED	Transmit LED (Light Emitting Diode): A light used to indicate the status of your system. It turns on when a button is pressed or communication is active.
Control Center	Mounted high in the vehicle usually on the windshield in a location close to the rear view mirror. Consists of a antenna/receiver for communicating between the control module and remote controls and a control button with status LED for programming system features.
Shutdown Toggle Switch	Normally located near the control module or mounted around the dashboard, this Shutdown switch is used to disable the remote start feature.

Battery Information

The 1-way remote controls are powered by a single coin cell battery (CR-2032), and the 2-way remotes are powered by two coin cell batteries (CR-2016) that can be purchased at most retailers. Operating range diminishes as battery charge depletes.

Battery Replacement

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

Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal or return to Directed at: One Viper way, Vista, CA 92081 (Shipping and/or handling costs are the sole responsibility of the owner/sender and will not be covered by Directed).

Patent Information

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

Vehicle Security Patents

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

Remote Start

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

Other patents pending

Government Regulations

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

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

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

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

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

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. 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 remote controls 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.

Manual Transmission Vehicles

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

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

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

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

Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR ANY CONSEQUENTIAL DAMAGES OF ANY KIND.

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

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

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

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

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

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