Congratulations on the purchase of your state-of-the-art keyless entry and remote start system. Reading this Owner’s Guide prior to using your system will help maximize the use of your system and its many features. Please visit: www.viper.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's included

Welcome to the best generation of security. Your system contains everything you need.

- Two 4-button remote controls (P/N 7145V)
- Owner’s guide and warranty registration card

Your warranty

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

**Internal antenna**
- Used for transmitting information

**Transmit LED**
- Active when transmitting information

**Command buttons (4)**
- Used to perform arming, disarming, auxiliary channel and remote start commands

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Remote control functions

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 approximately two 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 approximately two 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 AUX Buttons

When simultaneously pressed these buttons control the optional rear window defogger during remote starting. The parking lights flash three times to confirm activation. Once activated the defogger will turn on whenever the vehicle is remote started.

The parking lights flash twice when the defogger is deactivated. The defogger does not turn on when the vehicle is remote started.

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. When you activate timer mode the parking lights flash four times, after a 1-second delay the engine starts. To turn the engine off, without exiting timer mode press the £.

The system remains in timer mode and will start every 3 hours for a maximum of 6 starts unless cancelled by turning on the ignition, or by activating the brake or neutral safety shutdown wires.

The parking lights flash 4 times indicating timer mode is exited.
Using the system

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 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 approximately two 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

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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.
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.
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.
Battery Information
The remote control is powered by two 3V, CR2016 batteries. When the battery begins to weaken, operating range is reduced and the LED on the remote control 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 back together.

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.

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

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

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

Other patents pending
Government Regulations

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

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

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

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 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.
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 NONINFRINGEMENT 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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The company behind Viper® Auto Security Systems is Directed.

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

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

Call (800) 876-0800 for more information about our products and services.
**Installation Points**

**Tech Learning**

To learn the tech signal:
1. Start the vehicle with the key.
2. Within 3 seconds, press and hold the Valet button.
3. After 3 seconds the LED will light constant as the tech signal is learned.
4. Release the Valet button.

**Virtual Tach**

Note: Virtual tach is not recommended for diesel vehicles.

To program Virtual Tach:
1. After the install is complete, remote start the car.
2. While the vehicle is in park, start the car again, then remote start the attempt again.
3. Close the car door, let it run and the parking lights come on.
4. While the parking lights are on, try to shut off the remote start, the tach feature on Virtual Tach is programmed.

Virtual Tach handles disengaging the starter motor during remote starting – it replaces the OVERREV setting.

**Reset and Deletion**

If a feature/virtual tach needs to be reset or the remote controls need to be deleted, use the following procedure:
1. Test the ignition to the OFF position (The heavy gauge pink wire must be connected).
2. Wait 10 seconds, press and release the Valet button 2 times if you want to delete settings, 3 times to reset features or 3 times to reset virtual tach. These features are deleted next.

Delete remote: This feature erases all remotes from the memory of the system. This is useful in cases when a customer’s remote is lost or stolen.

Note: This does not program the functional features of the system or reset the Virtual Tach setting.

**Remote Start Shutdown Diagnostics**

Shutdown diagnostics: If the remote start activates but fails to stay running, the remote start module has the ability to inform you of what may have caused the remote start failure. Before performing shutdown diagnostics it is important that you let the remote start shut off on its own i.e. let it attempt to start 3 times then shut down. If this is not done the system will report the shutdown you used to shut off the remote start.

Now, shutdown diagnostics do not report if the vehicle battery is low or the battery is dead.

To perform shutdown diagnostics:
1. With the ignition Off, press and hold the Valet button.
2. Turn the ignition On and then back Off while holding the Valet button.
3. Release the Valet button.
4. Press and release the Valet button. The LED flashes to report the last shutdowns for one minute or until the ignition is turned on, as shown in the table.

**LED Flashing Indications**

1. Single Flash: Shutdown
2. Double Flash: Low battery (voltage and virtual tach modes)
3. Triple Flash: Transmitter shutdown (optional push button)
4. Four Flash: Transmitter shutdown (optional push button)
5. Five Flash: Transmitter shutdown (optional push button)
6. Six Flash: Transmitter shutdown (optional push button)
7. Seven Flash: Virtual tach set to zero (5 pin Black/White wire)
8. Eight Flash: Virtual tach set to zero (5 pin Black/White wire)
Programming System Features

The System Features menu routine dictates how the unit operates. It is possible to access and change most of the features using the Valet button.

1. Turn the ignition key to the ON position.
2. Press and hold the Valet button. The number of LED flashes and horn beeps indicates the menu number. A single LED flash and horn beep indicates menu 1. Two LED flashes and 2 beeps indicates menu 2.
3. When the desired menu LED flashes and horn beeps are heard, release the Valet button.
4. Select a feature. Press and release the Valet button the number of times corresponding to the feature you wish to change. Then press and hold one more time to select the feature. The LEDs flash and the horn beeps to indicate which feature is selected.
5. Program the feature. While holding the Valet button, you can program the feature using the remote control.

For features with only two options, press 1 with option 2. For features with more than two options, select the option in ascending order. The LEDs flash and the horn beeps to indicate which option is selected.

Once a feature is programmed:
- Other features can be programmed within the same menu.
- Another menu can be selected.
- The learn routine can be exited if programming is complete.

To access another feature in the same menu:
1. Press and release the Valet button the number of times necessary to advance from the feature you just programmed to the next one you want to program.
2. Then press the Valet button once more and hold it.

To select another menu:
1. Press and hold the Valet button.
2. After 3 seconds, the unit advances to the next menu, the horn beeps and LED flashes indicating which menu has been accessed.

The learn routine exits if any of the following occurs:
- The ignition is turned OFF.
- There is no activity for 30 seconds.
- The Valet button is pressed too many times.

Remote Programming

1. Turn the key to the OFF position.
2. While 5 seconds, press and release the Valet button once.
3. While 5 seconds, press and hold the Valet button. The LED will flash one time and the horn beeps to confirm entry into remote programming.
4. Press to lock the button on the remote control.
5. The button is now locked.
6. Release the Valet button, and turn the key to the OFF position.
7. The horn sounds one long beep to indicate that remote programming has been exited.

To exit the programming routine:
1. Turn the key to the OFF position.
2. There is no activity for 20 seconds.
3. The Valet button is locked too many times.

Bitwriter - Only Options

If programming with the Bitwriter®, the learn routine can be locked or unlatched. If the learn routine has previously been locked, it must be unlatched with Bitwriter®. This cannot be done manually with the Valet button.

The Bitwriter® gives you access to a wider range of system options. These features and the adjustments that may be programmed are described in the table below.

<table>
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<th>Menu Item</th>
<th>Feature</th>
<th>Default Options</th>
</tr>
</thead>
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<td>Engine Runtime</td>
<td>12 min. / 1400 rpm</td>
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<tr>
<td>2</td>
<td>Diesel start type</td>
<td>Off / Diesel-started</td>
</tr>
<tr>
<td>3</td>
<td>Diesel start delay (seconds)</td>
<td>15 sec. / 1.80 sec.</td>
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<td>4</td>
<td>Wait Time Fail</td>
<td>Not initialized / 0 to 1 second in 50 millisecond increments</td>
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<tr>
<td>5</td>
<td>Remote control programming</td>
<td>Unlocked / Locked</td>
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<td>Sum 20 mS</td>
<td>Sum 40 mS</td>
<td>Sum 60 mS</td>
<td>Sum 80 mS</td>
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<td>2</td>
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<td>Off</td>
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<tr>
<td>11</td>
<td>Tension mode run time</td>
<td>12 min.</td>
<td>3 min.</td>
<td>6 min.</td>
</tr>
</tbody>
</table>

Remote Programming

1. Turn key to the OFF position.
2. While 5 seconds, press and release the Valet button once.
3. While 5 seconds, press and hold the Valet button. The LED will flash one time and the horn beeps to confirm entry into remote programming.
4. Press to lock the button on the remote control.
5. The button is now locked.
6. Release the Valet button, and turn the key to OFF position.
7. The horn sounds one long beep to indicate that remote programming has been exited.

The programming routine exits if any of the following occurs:
- The ignition is turned OFF.
- There is no activity for 20 seconds.
- The Valet button is locked too many times.

Basic Remote Functions

<table>
<thead>
<tr>
<th>Item</th>
<th>Basic Commands</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UNLOCK</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>2</td>
<td>REMOTE START</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>3</td>
<td>UNLOCK</td>
<td>UNLOCK</td>
</tr>
<tr>
<td>4</td>
<td>REMOTE START</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>5</td>
<td>UNLOCK</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>6</td>
<td>REMOTE START</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>7</td>
<td>UNLOCK</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>8</td>
<td>REMOTE START</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>9</td>
<td>UNLOCK</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
<tr>
<td>10</td>
<td>REMOTE START</td>
<td>Pressing for one second unlocks the doors (if connected)</td>
</tr>
</tbody>
</table>

Note: See Owner's guide for more details.

Guide Translations

For a Spanish or French version of the Installation Guide, please download it from www.directechs.com under "Resources".

Traducción de los manuales:
Para obtener una versión en Español o Francés del Manual de instalación, descarguelo de www.directechs.com bajo el título "Recursos".

Traduction du guide:
Pour une version française ou espagnole du Manuel de installation, veuillez le télécharger de www.directechs.com sous "Ressources".

See full Installation Guide for more information about this unit.
Directions can be found online at www.directechs.com.
Remote start, 6-pin connector
1. Pink: Supply to Primary Security Circuit
2. Purple: Supply to Starter Circuit
3. Orange: Supply to Accessory Circuit
4. Red: +12V from Key//keyless Entry System
5. Purple/White: Supply to Second Security/Accessory Circuit
6. Red: +12V from Key/Keyless Entry System

Satellite harness, 4-pin connector
1. Blue: Remote Power Supply
2. Orange: Remote Accessory Power Supply
3. White: Remote Switch Input
4. Blue: Remote Switch Input

Remote start harness, 5-pin connector
1. Black/White: Neutral Safety/Accessory Switch Input
2. Orange/White: Remote Switch Input
3. Green: Remote Switch Input
4. Blue/White: Remote Switch Input
5. Blue: Remote Switch Input

Important: If Power or the Low voltage is 50msec of the learned time using the Bitwriter. Add 50msec and subtract the starter output time.

Installation Points

Tech Learning
To learn the tech signal:
1. Start the vehicle with the key.
2. If the car does not start on the first attempt, try the remote start again.
3. Once the car starts, turn it off and the parking lights come on.
4. When the parking lights come on, shut off the remote start with the remote start button.

Virtual Tach
Note: Virtual tach is not recommended for diesel vehicles.

To program Virtual Tach:
1. After the install is complete, remove the car battery.
2. If the car does not start on the first attempt, try the remote start again.
3. Once the car starts, turn it off and the parking lights come on.
4. When the parking lights come on, shut off the remote start with the remote start button.

Important: If the tech signal is learned, the tech signal will be displayed. Remove the remote start button from the system or reprogram the tech signal.

Remote Start Shutdown Diagnostics
If the remote start activates but fails to stop, the remote start module has the ability to show you what may have caused the remote start failure. Before performing shutdown diagnostics, it is important that you let the system shut down on its own. If it attempts to start 3 times then shuts down, it is not necessary to query the system as the shutdown will occur.

Remote Start Shutdown Diagnostics

Red 4-pin port, Bitwriter/ESP2 or D2D programming
The Red 4-pin port may be configured as a Bitwriter/ESP2 or a D2D port. The factory default is Bitwriter/ESP2 mode.

To use as a D2D mode follow the below steps:
1. Make sure White/Blue activation wire is grounded.
2. Power the unit off. The system LEDforums will light for 3 seconds to confirm D2D mode change.
3. Repeat the previous steps to confirm the LED forums.

To change from D2D to Bitwriter/ESP2 mode:
1. Make sure the White/Blue activation wire is grounded.
2. Power the unit off. The system LED forums will light for 3 seconds to confirm Bitwriter/ESP2 mode change.
3. Repeat the previous steps to confirm the LED forums.

The procedure can be repeated to toggle from one mode to the other.

Important: If you power up the system with the White/Blue activation wire ungrounded, the system LED will come on solid for 5 seconds indicating the system is in a Bitwriter/ESP2 mode.

Reset and Deletion
If a feature/virtual tach needs to be reset or the remote control needs to be deleted, use the following procedure.
1. Turn the ignition to the Off position (the heavy gauge pink wire must be removed).
2. Within 10 seconds, press and release the Valet button. 2 times if you want to delete remotes. 3 times to reset features or 4 times to reset virtual tach. These features are described next.

Delete remotes: This feature erases all remotes from the system. This is useful in cases when a customer's remote is lost or stolen. This does not reset the programmed features of the system or reset the Virtual Tach setting.

Remote features: This resets all features of the system to the factory default settings.

Remote Start: This feature deletes all previously learned values for Virtual Tach, and on the next remote start sequence the unit begins virtual tach initialization.

Note: The “Zap” feature on the Bitwriter does not reset the Virtual Tach setting.

Virtual Tach: Deletes all previously learned values for Virtual Tach, and on the next remote start sequence the unit begins virtual tach initialization.

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Programming System Features

The System Features learn routine dictates how the unit operates. It is possible to access and change most of the feature settings using the Valet button.

1. Turn the ignition on, then off.
2. Select a feature. Press and hold the Valet button. The LED flashes in the number above the feature number. A single LED flash and horn honks indicates menu 1. Two LED flashes and 2 honks indicates menu 2.
3. When the desired menu LED flashes and horn honks are heard, release the Valet button.
4. Select a feature. Press and release the Valet button the number of times corresponding to the feature you wish to change. Then press and hold one more time to select the feature. The LED flashes and horn honks to indicate which feature is selected.
5. Program the feature. While holding the Valet button, you can program the feature using the remote control.

For features with only two options, a = option 1 while b = option 2.
For features with more than two options, a selects the options in descending order.
The LED flashes and the horn honks indicating which option is selected.

Once a feature is programmed:
- Other features can be programmed within the same menu.
- Another menu can be selected.
- The entire menu can be exited if programming is complete.

To access another feature in the same menu:
1. Press and release the Valet button the number of times necessary to advance from the feature you just programmed to the desired one you wish to program.
2. Then press the Valet button once more and hold it.

To select another menu:
1. Press and hold the Valet button.
2. After 1 second, the unit advances to the next menu, the horn honks and LED indicating which menu has been accessed.

The features each have any of the following options:
- The ignition is turned off.
- There is no activity for 30 seconds.
- The Valet button is pressed too many times.

Bitwriter - Only Options

Using programming with the Bitwriter®, the learn routines can be locked or unlocked. If the learn routine has previously been locked, it must be unlocked with Bitwriter®. The Valet button cannot be used manually with the Valet button.

The Bitwriter® gives you access to a wider range of system options. These features and the adjustments that may be programmed are described in the table below.

<table>
<thead>
<tr>
<th>Menu</th>
<th>Feature</th>
<th>Default</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engine Brakes</td>
<td>12 min</td>
<td>10 min</td>
</tr>
<tr>
<td>2</td>
<td>Door start type</td>
<td>Off</td>
<td>Timed</td>
</tr>
<tr>
<td>3</td>
<td>Door start delay (seconds)</td>
<td>0.0 sec</td>
<td>0.5 sec</td>
</tr>
<tr>
<td>4</td>
<td>Virtual Unlock Tone</td>
<td>Not initialized</td>
<td>1 to 2 seconds in 30 min increments</td>
</tr>
<tr>
<td>5</td>
<td>Remote control programming</td>
<td>Unlocked</td>
<td>Locked</td>
</tr>
<tr>
<td>6</td>
<td>Feature Programming</td>
<td>Unlocked</td>
<td>Locked</td>
</tr>
</tbody>
</table>

Feature Menus

Default settings are in bold type.

Menu 1

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Horn function</td>
<td>Off</td>
<td>20 sec</td>
<td>30 min</td>
<td>45 min</td>
</tr>
<tr>
<td>2</td>
<td>Ignition controlled lock</td>
<td>On</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>3</td>
<td>Ignition controlled unlock</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>4</td>
<td>Door lock per function</td>
<td>0.8 sec</td>
<td>3.5 sec</td>
<td>6.6 sec</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Double pulse unlock</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>6</td>
<td>Door lock button</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>7</td>
<td>Factory Alarm/Timer Func</td>
<td>with unlock</td>
<td>before unlock</td>
<td>remove start</td>
<td>only</td>
</tr>
<tr>
<td>8</td>
<td>Factory Alarm/Buffer Tone</td>
<td>Single</td>
<td>Double</td>
<td>Single</td>
<td>Double</td>
</tr>
<tr>
<td>9</td>
<td>Comfort Clauses</td>
<td>Comfort Clause 1</td>
<td>Comfort Clause 2</td>
<td>Comfort Clause 2</td>
<td>Comfort Clause 2</td>
</tr>
<tr>
<td>10</td>
<td>Panic</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
</tbody>
</table>

Menu 2

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engine check</td>
<td>Virtual tech</td>
<td>Voltage</td>
<td>Off</td>
<td>a/c change</td>
</tr>
<tr>
<td>2</td>
<td>Engine Brakes</td>
<td>12 min</td>
<td>24 min</td>
<td>60 min</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Park light delay</td>
<td>Pulsed</td>
<td>Constant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cranking time</td>
<td>0.8 sec</td>
<td>0.8 sec</td>
<td>1.0 sec</td>
<td>1.2 sec</td>
</tr>
<tr>
<td>5</td>
<td>Activation</td>
<td>1 pulse</td>
<td>2 pulses</td>
<td>3 pulses</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Pulse ignition behavior</td>
<td>Ignition</td>
<td>Accessory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Accessory output</td>
<td>Off during</td>
<td>start</td>
<td>Off during</td>
<td>watchdog</td>
</tr>
<tr>
<td>8</td>
<td>Dual Start behavior</td>
<td>Normal</td>
<td>Latchless</td>
<td>latching</td>
<td>latching</td>
</tr>
<tr>
<td>9</td>
<td>Antenna control</td>
<td>On</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>10</td>
<td>Dual Start delay</td>
<td>Off</td>
<td>15 min</td>
<td>30 min</td>
<td>45 min</td>
</tr>
<tr>
<td>11</td>
<td>These modes are time</td>
<td>12 min</td>
<td>3 min</td>
<td>6 min</td>
<td>9 min</td>
</tr>
</tbody>
</table>

Remote Programming

1. Turn key to the ON position.
2. Within 3 seconds, press and hold the Valet button.
3. The LED will flash once and the horn honks to confirm entry into remote programming.
4. Press the button on the remote control.
5. The horn honks to confirm the remote has been programmed.
6. horn sounds as long horn to confirm that remote programming has been set.
7. horn sounds one long horn to confirm that remote programming has been set.
8. horn sounds one long horn to confirm that remote programming has been set.
9. horn sounds one long horn to confirm that remote programming has been set.

The programming routine ends if any of the following occurs:
- The option is turned off.
- There is no activity for 30 seconds.
- The Valet button is pressed too many times.

Basic Remote Functions

<table>
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<tr>
<th>Item</th>
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Note: See Owner’s guide for more details.

Guide Translations

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Traduction des manuels:
Pour obtenir une version en Espagnol ou Française du Manuel de traduction, détaillé de www.directechs.com et la sous rubrique "Resources".

Traduction du guide.
Pour une version française ou espagnole du guide d’installation, veuillez le télécharger à www.directechs.com sous "Resources".

Note: See Manual Guide for more detailed information on the bitwriter. How to use the link online at www.directechs.com.
If vehicle battery is disconnected, the system may attempt to start when the battery is reconnected or transmitter is used. Press brake to disengage. Check with vehicle owner to determine if hood pin switch or override switch was installed to disengage the system for service.

IMPORTANT SAFETY NOTICE
Please send products and other correspondence to:

Directed
1 Viper Way
Vista, CA 92081

X F R O 1 - 0 1

DIRECTED. 
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DENVER CO 80217-4391

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Proof of purchase in case of product theft or loss

☑ Efficient Warranty Service
In case there is a problem with your product

Or register online at www.prodregister.com/directed
**DIRECTED**

Please complete and return within the next 10 days or register online at productregister.com/directed.

<table>
<thead>
<tr>
<th>1.</th>
<th>Mr.</th>
<th>Mrs.</th>
<th>Ms.</th>
<th>Miss</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Street</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State/Province</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zip/Postal code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-mail address</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Your date of birth: [____] / [____] / [____]

3. Marital status: 01. Married 02. Single

4. Date of purchase: [____] / [____] / [____]

5. Model number: __________________________

6. Name of store where purchased: __________________________

7. Price paid: __________________________ (excluding tax)

8. Which Directed brand did you purchase?
   01. Autostart 04. Python
   02. Avital 05. Vyper
   03. Clifford 06. Other

9. What type of product did you purchase?
   01. Security system
   02. Security system with remote start
   03. Remote start system
   04. Keyless entry system

10. In what vehicle will this product be used?
    01. Car 04. Van 07. Boat
    02. Truck 05. Minivan 08. Motorhome
    03. SUV 06. Motorcycle 09. Other

Make of vehicle: __________________________

Model name: __________________________

VIN: __________________________

Year: 01. Bought new 03. Leased new
      02. Bought used 04. Leased used

11. How did you first become aware of this product? (check one)
    01. Local newspaper 07. Radio commercial
    02. Yellow pages 08. Salesperson's recommendation
    03. Magazine Ad 09. Motorsports sponsorship
    04. TV commercial 10. Internet
    05. Magazine article/review 11. Other

12. What factors most influenced the purchase? (check up to three)
    01. Directed's reputation 09. Rebate/Promotion
    02. Experience with Directed products 10. Style/Design/Color
    03. Experience with dealer 11. Dealer proximity
    04. Value/Price 12. Friend's recommendation
    05. Special features 13. Salesperson's recommendation
    06. Warranty 14. Compatibility w/vehicle
    07. Quality/Durability 15. Other
    08. Display in-store demo

13. What benefits most influenced your decision to purchase this product? (check up to three)
    01. Improved security 11. Warranty
    02. Improved convenience 12. Price/Value
    03. Improved performance 13. Rebate/Promotion
    04. Compatibility w/vehicle 14. Immediate
    05. Ease of installation availability
    06. Style/Design/Color 15. Friend/Family's recommendation
    07. Special features
    08. Quality/Durability 16. Salesperson's recommendation
    09. Increase vehicle value
    10. Functionality 17. Dealer proximity

14. What other brands did you seriously consider before making this purchase?
    01. No other brands 06. Compustar
    02. Other Directed brands 07. Prestige
    03. Code Alarm 08. Pursuit
    04. Audiovox 09. Crime Stopper
    05. Auto Page 10. Bulldog

Failure to return this form will not change your warranty rights.