

Model 417
Owner's Guide

[Limited Lifetime Consumer Warranty]

Directed Electronics, Inc. ("DEI") promises to the original purchaser to repair or replace with a comparable reconditioned model any DEI 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 professionally installed and serviced by an authorized DEI dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized DEI dealer; and the unit is returned to DEI, 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. This warranty is non-transferable and is automatically void if: the original purchaser has not completed the warranty card and mailed it within ten (10) days of the date of purchase to the address listed on the card; the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. DEI, 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 DEI NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DEI DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DEI SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DEI 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 VAN-**

DALISM. 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 DEI OR ITS SUBSIDIARY, THE PROPER 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 DEI SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DEI DEALER'S PURCHASE PRICE OF THE UNIT. DEI SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, 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 AS DESCRIBED ABOVE. 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 product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized DEI dealer for details of the plan or call DEI Customer Service at 1-800-876-0800. DEI security systems, including this unit, are deterrents against possible theft. DEI 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. DEI does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this security system.

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

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

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

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[What is Included]

- A control module
- A dual-stage shock sensor (on-board the control module)
- A soft chirp, six-tone siren
- A red status LED indicator light
- A push-button Valet switch
- A starter interrupt relay

[Important Information]

Congratulations on the purchase of your state-of-the-art vehicle security system. This system has been designed to provide years of trouble-free operation. This system requires no specific maintenance. By carefully reading this owner's guide, you will maximize the use of this system and its features.

Your Warranty

Your warranty reply card must be returned. If the warranty reply card is not returned, you do not have a warranty. It is also necessary to keep your receipt, which reflects that the product was installed by an authorized dealer. Make sure that you receive the warranty card from your dealer.

FCC/ID Notice

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 undesired operation.

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

[Using Your System]

Arming

You can arm the security system by locking the vehicle doors with your factory keyless entry transmitter. When the system arms, you will hear a short siren sound (chirp) and the parking lights will flash once. Once armed, the status LED will flash once per second to indicate that your vehicle is being actively protected. If you hear a second chirp after arming and notice that the status LED is flashing in a grouped pattern, this signals Bypass Notification, which is described in the Diagnostics section of this manual.

NOTE: If the ignition is turned on within 60 seconds of arming the security system, the system will automatically disarm.

Arming the security system protects your vehicle in the following ways:

- Light impacts trigger a Warn Away® Response, causing the siren to chirp and the parking lights to flash for a few seconds.
- Heavy impacts trip a triggered sequence, causing the siren to sound continuously and the parking lights to flash for either a 30 or 60-second period. (See Programming Options.)
- If a door is opened, the siren immediately starts chirping and the parking lights instantly start flashing. Three seconds later, the siren output changes to a continuous blast. This two-stage progressive response allows you time to disarm the system with your transmitter if a door is inadvertently opened while the system is armed. This feature can also be programmed for delayed response, which allows you 15 seconds to disarm the system before the full trigger activates. (See Programming Options)
- The starter interrupt relay prevents the vehicle's starter from cranking.

Disarming

You can disarm the security system by unlocking the vehicle doors with your transmitter. When the system disarms, two chirps are emitted, the parking lights flash twice, and the LED stops flashing. The siren chirping either four or five times when disarming indicates Tamper Alert. (See Diagnostics section for more details.)

Disarming Without a Transmitter

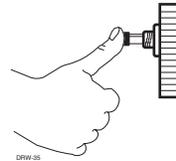
If your transmitter is lost or damaged, you can manually disarm your security system.

To disarm using the Valet switch:

To disarm the security system without a transmitter, you must have the ignition key and know where the Valet switch is located. Be sure to check with your installer at the time of installation for both the location and the preset response (1-5 presses) of the Valet switch.



Turn the ignition key on and press the Valet switch the preset number of times within 15 seconds. If the system does not disarm, you may have waited too long to press the Valet switch; turn the ignition off and repeat the process.



IMPORTANT! The Valet switch can be programmed to respond to 1-5 presses for the disarm function. You must check with the installer to verify the programming for your individual unit.

LOCATION OF VALET SWITCH

To disarm using the vehicle key:

In addition to being able to disarm the security system using the Valet switch, your system may have been programmed so that it can be disarmed whenever the vehicle key is used to open the driver's or passenger's door.

NOTE: This feature is only available if your system has been programmed with the Level I security setting. (See Glossary section of this manual for Level I security description.) Consult with your installer to determine if your vehicle has been programmed for Level I security.

To disarm the security system with the vehicle's door key:

1. Insert the key into one of the door key cylinders.
2. Turn the key until the vehicle door(s) unlocks. The siren will chirp to confirm that the security system has been disarmed.

Panic Mode (Optional)

Panic Mode is a programmable option of your security system. (See *Programming Options* section of this guide.) This is because most original equipment from the manufacturer (OEM) keyless entry systems already have a remote-activated panic feature. In order for Panic Mode to be operational, the siren or horn must be connected to the security system.

If you are threatened in or near your vehicle, you can attract attention by activating Panic Mode. Press the lock button on your factory keyless entry transmitter twice within three seconds to sound the siren and flash the parking lights for 30 seconds. To stop Panic Mode at any time, press the unlock button on your transmitter.

NOTE: Panic Mode is not available with all factory keyless entry systems, due to the fact that the lock button may not be triggered a second time once the vehicle doors have been locked with the factory transmitter.

Trunk Access While the System Is Armed

Trunk access with your transmitter:

While the system is armed, you can open the trunk by pressing the trunk release button on your transmitter without triggering the alarm. Only the trunk sensors are bypassed while the rest of the security system remains armed. Normal trunk monitoring will resume 5 seconds after the trunk has been closed.

Trunk access with your key:

If the system is programmed for Level I security (see Glossary section of this manual for a description of Level I security), you may also open the trunk with your vehicle key while the system is armed, without triggering the alarm. Normal trunk monitoring will resume 5 seconds after the trunk has been closed. Consult with your installer to determine if your vehicle has been programmed for Level I security.

NOTE: This feature is not available for Buick LeSabres, Oldsmobile Auroras, Pontiac Bonneville and Jeep Grand Cherokees. The alarm will trigger if you open the trunk of one of these vehicles with the key while the system is armed.

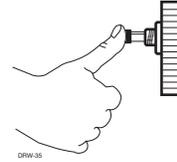
Valet Mode

Valet Mode is a feature that prevents your security system from arming or triggering either automatically or with your factory keyless entry transmitter. In Valet Mode, the security system will not arm, even with the remote transmitter, but all convenience functions, such as door locks, trunk release, etc., will function normally. Valet Mode is useful when washing or servicing your vehicle.



To enter or exit Valet Mode:

1. Turn the ignition on.
2. Turn the ignition off.
3. Press and release the Valet switch within 10 seconds.



The status LED will light steadily if you are entering Valet Mode and will turn off if you are exiting Valet Mode.

Remote Valet

You can also activate Valet Mode with your transmitter:

1. Open any vehicle door.
2. Press the lock button on your transmitter.
3. Press the unlock button on your transmitter.
4. Press the lock button on your transmitter again.

The status LED will light solid if you are entering Valet Mode and will turn off if you are exiting Valet Mode.

NOTE: The Remote Valet feature will not work with all factory keyless entry systems, as some systems do not work when a vehicle door is open.

[Nuisance Prevention[®] Circuitry]

Your system has Nuisance Prevention Circuitry (NPC[®]). This circuitry prevents annoying repetitive trigger sequences due to faulty door pin switches or conditions such as thunder, jackhammers, airport noise, etc.

Here's how NPC works: If the alarm is triggered by the same sensor or switch three times within a 60 minute period, your system interprets this pattern of triggers as false alarms. After the third trigger, your system ignores, or bypasses, that sensor or switch (along with any other sensors or switches sharing the same zone) for 60 minutes. If the bypassed sensor is triggered again while it is already being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that is continually being triggered will remain bypassed.

The vehicle doors are protected differently. If your security system is triggered by an open door for three, full 30-second cycles (one and one half minutes), it will bypass the doors until the trigger ceases.

NOTE: Arming and disarming the security system does not reset NPC. The only ways to reset a bypassed zone are for that zone not to be triggered for 60 minutes or to turn the ignition key on. When testing your system, it is important to remember that the False Alarm Prevention Circuitry can cause zones to be bypassed and appear not to work properly. If five chirps are heard when disarming the system, NPC was engaged. To clear the memory, turn the ignition key on.

[**Diagnostics**]

The microprocessor at the heart of your system has the ability to constantly monitor all of the switches and sensors connected to it. It can detect any faulty switches or sensors and prevent them from disabling the entire system. It can also record and report any triggers that occur when you are away from your vehicle.

Arming Diagnostics

If the system is armed at the same time that an input is active (door opening, sensor triggering, etc.), you will hear one chirp to indicate arming and a second chirp to indicate Bypass Notification. A Bypass Notification chirp means that the system ignores the input that was active when the system was armed, until that input ceases. Three seconds after that input ceases, the system resumes normal monitoring. For example, if your vehicle has an interior light exit delay and you arm the system before the light turns off, you may hear a second Bypass Notification chirp. Once the light turns off, however, the system resumes normal monitoring.

NOTE: Bypass Notification does not occur if the chirps have been programmed by the installer not to sound.

Disarming Diagnostics

Your security system has a Tamper Alert feature that notifies you of triggers that occur while you are away from your vehicle. If the siren emits four chirps when you disarm, this indicates that the system was triggered in your absence. Five chirps when disarming indicates that a specific zone was triggered so many times that the Nuisance Prevention Circuitry has bypassed that zone. In both cases, the pattern of the flashing status LED will indicate which zone was triggered (see Table of Zones). The LED does not, however, report when Warn Away Responses have been activated; only full Triggered Sequences are reported. The system retains this information in its memory and continues to chirp four or five times each time it is disarmed, until the next time the ignition is turned on.

Table of Zones

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

ZONE (Number of LED Flashes)	DESCRIPTION	DEALER-INSTALLED OPTIONS
1	Instant trigger - often used for hood/trunk pinswitches	
2	Instant trigger - a heavier impact detected by the on-board shock sensor	
3	Door data bus trigger	
4	Optional sensor	
5	Ignition trigger	

NOTE: The Warn Away response will not report on the LED.

[Programming Options]

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

The system's programming options are listed here, with the factory default settings in **bold**:

- **Active Arming** (only with the remote) or **Passive Arming** (automatic arming occurring 30 seconds after the last door is closed).

- Arming and disarming confirmation siren chirps, **on** or off.
- **Active Door Locking** (only when arming with the transmitter) or Passive Door Locking (with Passive Arming).
- Valet Switch Pulse Count: The number of times the vehicle's Valet switch needs to be pressed to disarm the security system. One to five pulses can be programmed, with the default setting being **one pulse**.
- Siren Tones and Chirp Volume: The output of the siren consists of six different tones in sequence. Your dealer can eliminate any of these tones, resulting in a unique, easily identifiable siren sound. The chirps can be programmed for either full volume or **six decibels quieter** than full alarm blast.
- Siren Duration: The length of the triggered sequence can be programmed so that the siren sounds and the parking lights flash for either **30 seconds** or 60 seconds.
- **Instant** or Delayed Door Trigger Response: In the standard configuration the security system will instantly provide a Progressive Response if the door is opened while the system is armed. The siren will chirp and the parking lights will flash for a few seconds followed by a full trigger response. In the delayed mode, nothing will happen for the first 15 seconds after the door is opened. After 15 seconds, the unit begins the full trigger response.
- **Panic Mode** or Optional Accessory: This unit is capable of controlling an optional accessory, such as power window control. In the default setting, pressing the lock button of the factory transmitter twice will activate Panic Mode. If the unit is

custom configured, however, pressing the lock button twice will activate this optional accessory.

NOTE: The installation of an optional accessory will require additional parts and labor and will also eliminate the Remote Panic Mode feature.

- **Level I or Level II Security:** Level I security allows for access to the system's convenience features in the event that the transmitters are lost, stolen or damaged. Selecting Level II security will provide a higher level of security if the transmitters are lost, stolen or damaged, but allows access to only some of the system's convenience features. (See Glossary section of this manual for detailed explanations of Level I security and Level II security.)

[Security & Convenience Expansions]

Here we have listed only some of the many expansion options available. Please consult your dealer for a complete list of the options available for use with your system.

Domelight Supervision: The domelight will light for 30 seconds each time the security system is disarmed using the transmitter. This feature is useful for seeing inside before entering the vehicle.

Valet® Start System: For the ultimate in convenience, the Valet® Start System can start your vehicle, monitor engine functions, and power your climate control system with a push of a button!

Over-rev protection, open-hood lockout, brake-pedal shutoff, and automatic timer shutoff are all included. (Only for automatic-transmission, fuel-injected gasoline vehicles.)

Power Window Control: Automatic power window control is provided with the 529T and 530T systems.

[Glossary of Terms]

Control Module: The "brain" of your system. Usually hidden underneath the dash of the vehicle. It houses the microprocessor that monitors your vehicle and controls all of the security system functions.

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

LED: A red light mounted inside the vehicle, at a location determined by the installer. The LED indicates the status of your security system and also reports triggers and faults in the system or sensors.

Level I Security: A convenience setting that allows you to disarm the security system at the vehicle's door key cylinder, in the event that the factory transmitter is lost, stolen or damaged. Level I security also allows you to pop the trunk using the trunk key or the factory transmitter while the rest of the vehicle remains armed.

Level II Security: A high security setting that protects your vehicle at the door and trunk key cylinders. With Level II security, the system cannot be disarmed at the door key cylinder with a vehicle key. Also, the trunk cannot be accessed with the vehicle key while the system is armed, without triggering the alarm. (The transmitter can still be used to disarm the system and to access the trunk while the system is armed.) Level II security will protect your vehicle in cases when someone with an unauthorized coded key attempts to enter the vehicle. It also offers protection if someone attempts to force one of the key cylinders to unlock the vehicle.

Shock Sensor: A dual-stage shock sensor located on the control module that detects impacts to the vehicle or glass.

Starter Interrupt Relay: An automatic switch controlled by the system that prevents the starter from cranking whenever the system is armed. The vehicle is never prevented from cranking when the system is disarmed, in Valet Mode, or if the starter interrupt relay fails.

Trigger or Triggered Sequence: The "setting off" or "tripping" of the alarm. A Triggered Sequence consists of the siren sounding and the parking lights flashing for 30 or 60 seconds.

Valet Switch: A small, push-button switch mounted inside the vehicle, at a location determined by the installer. This switch is used to override the alarm when a transmitter is lost or damaged. The Valet switch can also be used to put the system into Valet Mode.

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

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

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

QUICK REFERENCE GUIDE:

To arm using your remote

- To arm the system, lock the vehicle doors with your factory keyless entry transmitter. When the system arms, you will hear one chirp and the parking lights will flash once.

To disarm using your remote

- To disarm the system, unlock the doors using your factory keyless entry transmitter. When the system disarms, you will hear two chirps and the parking lights will flash twice.

Disarming without a transmitter

- To disarm with the Valet switch: Turn on the ignition key. Then press the Valet switch the pre-programmed number of times within 15 seconds. If the system does not disarm, you may have waited too long; turn the ignition off and repeat the process.
- To disarm using the vehicle key: Insert the key into one of the door key cylinders. Turn the key until the door(s) unlocks. The siren will chirp to confirm that the security system has been disarmed. **Note:** Disarming with the vehicle key will only work if your system has been programmed for Level I security.

To activate or deactivate Panic Mode

- Press the lock button on your factory keyless transmitter twice within three seconds to enter Panic Mode. The siren will sound (or the horn will honk) and the parking lights will flash for 30 seconds. To stop Panic Mode at any time, press the unlock button on your factory keyless entry transmitter. **Note:** Your system may not be programmed for Panic Mode feature.

To enter or exit Valet Mode

- To enter or exit Valet Mode, turn the ignition key on and then off. Then press and release the Valet switch within 10 seconds. The status LED will light steadily if you are entering Valet Mode and will turn off if you are exiting Valet Mode.

Remote Valet

- To activate Valet Mode with your factory keyless entry transmitter, first open any vehicle door. Then press the lock button on your transmitter. Press the unlock button. Then press the lock button again. The status LED will light solid if you are entering Valet Mode and will turn off if you are exiting Valet Mode. **Note:** The Remote Valet feature may not work with all factory keyless entry systems, but you should still be able to enter Valet Mode manually, using the Valet switch.

The company behind this system is Directed Electronics, Inc.

Since its inception, the company known as Directed Electronics, Inc. (DEI®) has had one purpose—to bring the proven advantages of microprocessor and I.C. technology to the automotive industry.

As a recipient of numerous patents, DEI® has established new standards in electronic design, automated manufacturing, and dealer support. Its electronic products are sold and serviced worldwide.

Call **(800) 477-1372** for more information about our products and services.



DEI is an ISO 9001 registered company.

DEI is committed to delivering on time, the best products we know how to provide, and to constantly work with our customers and vendors to improve our products, quality, delivery and customer friendly features.

Directed Electronics, Inc.

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