

**Model 100ESP**  
**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 of the purchased brand 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 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 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:

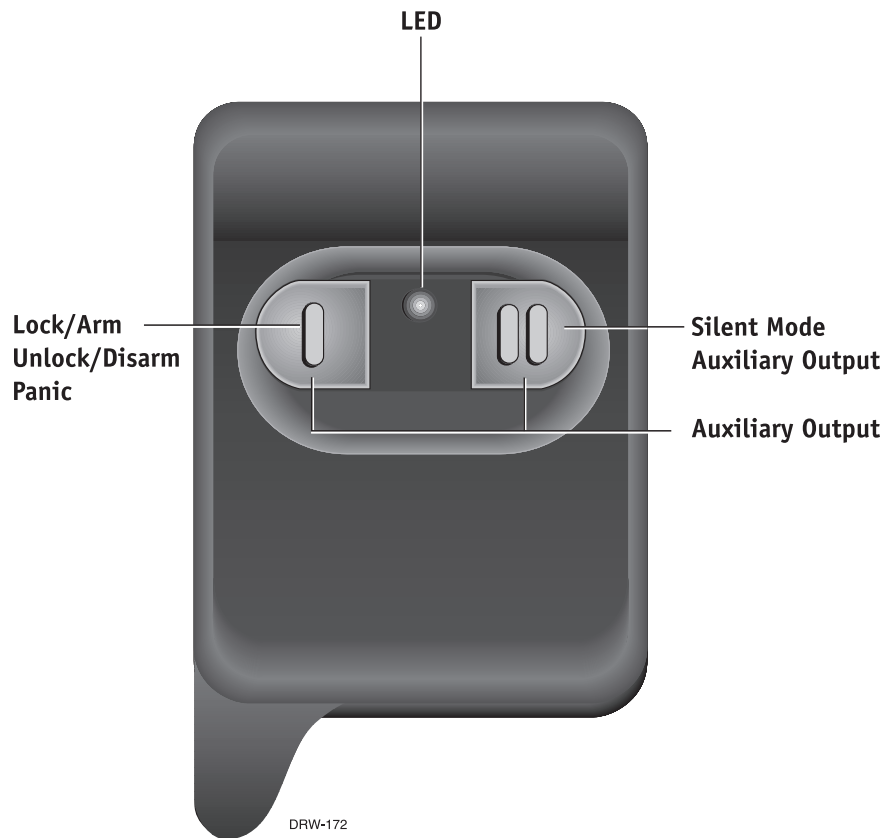
A clear copy of the sales receipt, showing the following:

- 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

# [ Table of Contents ]

<b>Limited Lifetime Consumer Warranty</b> . . . . .	i
<b>Standard Configuration Transmitter Diagram</b> . . . . .	2
<b>What Is Included</b> . . . . .	3
<b>Important Information</b> . . . . .	3
FCC/ID Notice . . . . .	4
System Maintenance . . . . .	4
Your Warranty . . . . .	4
<b>Transmitter Functions</b> . . . . .	5
Standard Configuration . . . . .	5
<b>Using Your System</b> . . . . .	6
Arming/Locking . . . . .	6
Disarming/Locking . . . . .	7
Disarming the FailSafe® Starter Kill without a Transmitter . . . . .	7
Silent Mode . . . . .	8
Valet Mode . . . . .	8
Panic Mode . . . . .	9
<b>Rapid Resume Logic</b> . . . . .	9
<b>Programming Options</b> . . . . .	10
<b>Owner Recognition</b> . . . . .	11
<b>Security &amp; Convenience Expansions</b> . . . . .	11
<b>Glossary of Terms</b> . . . . .	13
<b>Quick Reference Guide (Removable)</b> . . . . .	14

# [ Standard Configuration ]



## [ What is Included ]

- The control module
- A pair of two-button transmitters
- The red status LED indicator light
- A push-button Valet® switch
- Your warranty card
- Failsafe® Starter Kill ready circuitry (may require additional labor)

## [ Important Information ]

This system has been designed to provide years of trouble-free operation. Due to the complexity of this system, it must only be installed by an authorized dealer. Installation of this product by any person other than an authorized dealer voids the warranty. All dealers are provided with a preprinted dealer certificate to verify that they are authorized.

This owner's guide should help you to get the most out of your system. Please take the time to read it thoroughly prior to using the system.

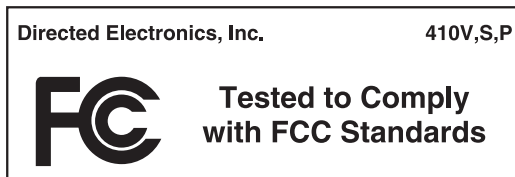
You can print additional or replacement copies of this manual by downloading this guide from the DEI website at **[www.dei.com](http://www.dei.com)**.

### FCC/ID Notice

---

This device complies with Part 15 of FCC rules. Operation is subject to the following 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.



### System Maintenance

---

The system requires no specific maintenance. Your remote control is powered by a miniature 12V battery, type GP23A, that will last approximately one year under normal use. When the battery weakens, operating range will be reduced and the LED on the remote will dim.

### Your Warranty

---

Your warranty card must be returned and the bar code serial number must not be removed. If the warranty card is not returned you do not have a warranty. It is also necessary to keep your proof of purchase which reflects that the product was installed by an authorized dealer. **Make sure you receive the warranty card from your dealer.**






# [ Transmitter Functions ]

Your vehicle keyless entry system is programmable, making it possible to assign any transmitter button to any specific receiver function. The transmitter initially comes programmed with Standard Configuration, but may also be customized by an authorized dealer. The buttons in all of the instructions in this manual correspond to a Standard Configuration transmitter.




## Standard Configuration

---

### Button



The arm/lock, disarm/unlock, and panic functions are controlled by . Pressing  for one second will alternately arm/lock or disarm/unlock. Panic Mode is activated by pressing  for 1.5 seconds.

### Button

Silent Mode and an optional auxiliary function are controlled by pressing . Silent Mode™ works by pressing  for less than one second prior to arming or disarming with the transmitter. An optional auxiliary function is controlled by pressing and holding  for 1.5 seconds.

The auxiliary output controls \_\_\_\_\_.

### and Buttons


An optional auxiliary function that you have added to your system can be activated by pressing  and  simultaneously.

The auxiliary output controls \_\_\_\_\_.

# [ Using Your System ]

## Arming/Locking

---

Pressing  for one second will arm the system and lock the doors. The red LED will begin to flash once per second. The Failsafe® Starter Kill will prevent the vehicle's starter from cranking if it has been installed. If connected, the vehicle's horn will honk and the parking lights will flash once to confirm arming of the system. If the ignition is turned on while the system is armed the horn will honk and the parking lights will flash (if connected).


**NOTE:** You must use your remote transmitter to lock the vehicle in order for the system to be armed. Manually locking the vehicle does not arm the system; it will only lock the doors. If you have not used the remote transmitter to lock the vehicle doors (i.e. the vehicle has been locked using the lock/unlock switch) the transmitter cannot be used to unlock the doors.

The system also can be programmed to arm the starter kill automatically (called **passive mode**). If the system is programmed for passive mode, it will automatically activate the starter kill 30 seconds after the ignition is turned off. Passive mode is indicated by rapid flashing of the LED after the ignition is turned off.

**NOTE:** For passive mode to be effective, the Failsafe® Starter Kill relay must be installed.

If passive mode is programmed on, it is also possible to program the system to lock the doors automatically. This is called **passive locking**. If passive locking is turned on, care must be taken to prevent the keys from being locked in the vehicle.

## Disarming/Unlocking

To disarm the system and unlock the doors of the vehicle, press  for one second. The Failsafe® Starter Kill will be deactivated and the vehicle's horn (if connected) will honk twice. The parking lights will also flash twice (if connected). The red LED will go out, unless the system is programmed for passive mode. If programmed for passive mode, the LED will begin to flash rapidly when the system is disarmed. This indicates that the system will re-engage the Failsafe® Starter Kill relay and re-lock the doors (if passive locking is selected) in 30 seconds unless the key is turned on.

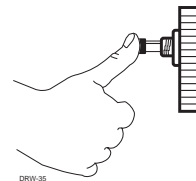
**NOTE:** If the system has been armed with the remote transmitter, you must use the transmitter or the Valet switch to disarm the system and deactivate the starter kill. Manually unlocking the vehicle does not disarm the system; it will only unlock the doors.

## Disarming the Failsafe® Starter Kill without a Transmitter

This feature allows you to override the starter kill without the transmitter should it be lost, damaged or disabled. To do this, you must have the ignition key and know where the Valet® switch is located. Check with the installer for the location of the Valet® switch.




Turn the ignition to the "run" position. Press and release the Valet® switch, within 10 seconds. The LED will stop flashing and the vehicle should start. If it does not, you may have waited too long. Turn the ignition off and try again.



### Silent Mode

---

Use the Silent Mode to temporarily turn off the arm or disarm confirmation honks by briefly pressing  before either arming or disarming the system. The confirmation honk(s) will then be eliminated for that one operation only. To permanently turn off the arm and disarm confirmation honks, contact your installation dealer.

### Valet® Mode

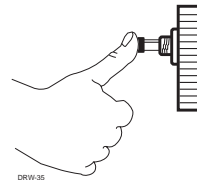
---

You can prevent your system from automatically activating the Failsafe® Starter Kill relay and locking the doors, by using Valet® Mode. This is very useful when washing the vehicle or having it serviced. In **Valet® Mode**, the system will not activate the Starter Kill, even with the transmitter, but all convenience functions (door locks, trunk release, etc.) will work normally.

#### To enter or exit Valet® Mode with the Valet switch





Turn ignition to “on” position, then turn to “off” position. Press and release the Valet switch within 10 seconds. The status LED will light steady if you have entered Valet Mode. To exit Valet Mode, repeat the steps above. The LED will turn off when exiting Valet Mode.



## Panic Mode

---

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

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

## [ Rapid Resume Logic ]

The system will store its current state to non-volatile memory. If power is lost and then reconnected the system will recall the stored state from memory. If the unit is in Valet® Mode and the battery is disconnected for any reason, such as servicing the car, when the battery is reconnected the unit will still be in Valet Mode. This applies to all system states including arm, disarm, and Valet Mode.

# [ Programming Options ]

Programming options control what your system does during normal operation, and require little or no additional parts. However, some may require additional installation labor.

The following list of program settings shows the defaults in **Bold**:

- Passive mode or **active mode**. In passive mode the Failsafe Starter Kill relay will be automatically activated 30 seconds after the ignition key is turned off.
- Both the ignition switch-controlled door lock and unlock features can be turned **on** or off. If ignition door lock is on, the vehicle's doors will lock three seconds after the key is turned on. If ignition door unlock is on, the vehicle's doors will unlock when the key is turned off.
- Passive door locking (with passive arming) or **active** door locking (only when arming with the transmitter). This feature only works if passive arming has been turned on.
- The locking and unlocking horn honk confirmations can be programmed **on** or off. The vehicle's horn must be connected.
- Domelight supervision when the key is turned off can be programmed **on** or off. If programmed on, the domelight will turn on for 30 seconds each time the ignition is turned off.

## [ Owner Recognition ]

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

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

## [ Security & Convenience Expansions ]

Here we have listed only some of the many expansion options available. Please consult your dealer for a complete explanation of all the options available to you.

**Domelight Supervision:** If installed, the domelight will illuminate for 30 seconds each time the system is disarmed using the transmitter. This is useful for seeing inside the vehicle at night prior to entering it.

**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. This option is available only for automatic-transmission, fuel-injected gasoline vehicles.

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

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

**Progressive Door Unlocking:** For added security, your system can be configured to only unlock the driver's door when the unlock button is pressed. The passenger door(s) can then be unlocked by pressing the unlock button again within 15 seconds of unlocking the driver's door.

**820T Valet® Car★Com™:** The 820T is a one-way pager system that can be added to any compatible DEI security system. Using the 820T, many of the security and convenience features of your DEI security system can be operated from any touch tone telephone.



## [ Glossary of Terms ]

**Control Unit:** The “brain” of your system. Usually hidden underneath the dash area. It houses the microprocessor which monitors your vehicle and controls all of the alarm’s functions.

**Failsafe® Starter Kill:** An automatic switch controlled by the security 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 should the starter kill switch itself fail. Your system is ready for this feature, however installation of this feature may require additional labor.


**LED:** Red light mounted somewhere in the vehicle. It is used to indicate the status of your system. It is also used to report triggers and faults in the system or sensors.

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


**Valet® Switch:** A small push button switch mounted somewhere inside the vehicle. It is used to override the alarm when a transmitter is lost or damaged, or to enter Valet® mode.

## QUICK REFERENCE GUIDE:

### To arm/lock using your remote

- Pressing  for one second will arm the system and lock the doors. The red LED will begin to flash once per second. The Failsafe® Starter Kill will prevent the vehicle's starter from cranking if it has been installed. The vehicle's horn (if connected) will honk and the parking lights will flash once to confirm arming of the system.

### To disarm/unlock using your remote

- To disarm the system and unlock the doors, press  for one second. The Failsafe® Starter Kill will be deactivated and the vehicle's horn (if connected) will honk twice and the parking lights will flash twice.

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

- To do this, you must have the vehicle's ignition key and know where the Valet® switch is. Be sure to check with the installer for the location of the Valet® switch. Turn on the ignition. Press and release the Valet® switch, within 10 seconds. The LED will stop flashing and the vehicle should start.

### To enter or exit Valet® Mode

- Turn the ignition to the "on" position. Turn the ignition back off. Press and release the Valet® switch within 10 seconds. The Status LED will light steady if you have entered Valet® Mode. To exit Valet® Mode, repeat the steps above. The LED will turn off when exiting Valet® Mode.

### To activate panic mode

- Press and hold  down for 1.5 seconds.

### To exit panic mode

- Press .



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





## **The company behind this system is Directed Electronics, Inc.**

Since its inception, DEI® has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of more than 20 patents in the field of advanced electronic technology, DEI is ISO 9001 registered.

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

Call **(800) 274-0200** for more information about our products and services.



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.

Vista, CA 92083

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

© 1999 Directed Electronics, Inc. - All rights reserved

G410 7/99