

Model 700 ESP Owner's Guide

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[Standard Transmitter Configuration]



controls the **Arm** function.



controls the **Disarm** function.

AUX controls **Silent Mode™** and an **Auxiliary Output**.



controls the **Panic** function.



and



pressed simultaneously control another

Auxiliary Output.

AUX

and



pressed simultaneously control another

Auxiliary Output.

What is Included

- A control module
- A pair of four-button transmitters
- A Stinger® shock sensor (on-board the control module)
- A Revenger® siren with rechargeable back-up battery
- The red status LED indicator light
- A push-button Valet® switch
- A pair of siren keys

Important Information

Congratulations on the purchase of your state-of-the-art vehicle security system. It has been designed to provide years of trouble-free operation. The owner's guide should help you to get the most out of your security system. Please take the time to read it prior to using the system. Due to its complexity, the system must only be installed by an authorized dealer.

System Maintenance

The system requires no specific maintenance. Your remote is powered by a small, lightweight 3-volt lithium battery 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.

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.

[Transmitter Functions]


This security system's control module uses a computer-based learn routine to learn the remote transmitter buttons. This makes it possible to assign any remote transmitter button, or combination of buttons, to any control module function. The remote transmitter initially comes programmed with Standard Configuration, but may also be customized by an authorized dealer. The remote transmitter buttons used in all of the instructions in this owner's guide correspond to a Standard Configuration transmitter.

Standard Configuration

Button

The arming function is controlled by pressing .

Button


The disarming function is controlled by pressing .

AUX Button



Silent Mode™ and an optional auxiliary function are controlled by **AUX**. (Silent Mode works by pressing **AUX** for less than one second before arming or disarming. An optional auxiliary function, such as trunk release, can be controlled by pressing and holding **AUX** for 1.5 seconds.)

This auxiliary output controls _____.

Button


The panic feature is controlled by pressing  for 1 second.

and **Buttons**

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

This auxiliary output controls _____.

AUX and Buttons


Another optional auxiliary convenience or expansion function that you have added to your system can be activated by pressing **AUX** and  simultaneously.

This auxiliary output controls _____.

[Using Your System]

The transmitter buttons used in the instructions in this manual correspond to the Standard Configuration. Remember, this is not the only way your transmitter may be set up. It can be custom configured to meet your needs.

Arming

You can activate, or arm, the system by pressing  on your transmitter for one second. When the system arms, you will hear a short siren sound, or chirp, and the parking lights will flash once. If the vehicle's power door locks have been connected to the system, the doors will lock.

While the system is armed, the status LED will flash approximately once per second, indicating that the system is actively protecting your vehicle. If you hear a second chirp after arming, and see the status LED flashing in groups, refer to the Diagnostics section of this guide. This extra chirp is called Bypass Notification.

The system also can be programmed to arm itself automatically (called passive arming). If the system is programmed for passive arming, it will automatically arm 30 seconds after the ignition is turned off and the system "sees" you leave the vehicle by opening and closing a door. Whenever the system is in its 30-second passive-arming countdown, the status LED will flash twice as fast as it does when the system is armed. The siren will chirp one time



20 seconds after the last door has been closed. The system is not actually armed at that point. The system arms and the doors lock (if connected and programmed for passive locking) at the 30 second point, but the siren will not chirp. The early chirp provides you with a 10-second warning prior to arming.






NOTE: If any protected entry point, such as a door or a switch-protected trunk or hood, is open, the system will not passively arm unless forced passive arming is programmed on. See Programming Options section of this guide. Additionally, each time a sensor is triggered during the arming countdown, the 30-second countdown starts over.

When armed, your vehicle is protected as follows:

- Light impacts will trigger the Warn Away® signal. The siren will chirp and the parking lights will flash for a few seconds.
- Heavy impacts will trigger the system. The triggered sequence is 25 seconds (default) of constant siren and flashing parking lights; however, the triggered sequence can be programmed for any duration from 1-180 seconds by an authorized dealer.
- If a door is opened, the system will immediately start chirping the siren and flashing the parking lights. Three seconds later, the siren output changes to a continuous blast. This progressive response allows you time to disarm the system with your transmitter if you inadvertently open the door while the system is armed, while still providing an instant response (even if the door is immediately closed).
- Turning on the ignition key will trip the same two-stage response as opening a door.
- The fuel interrupt, ignition interrupt and starter kill work together to provide Security Interrupt, a feature that prevents the vehicle's engine from starting.


Multi-Level Security Arming

Multi-Level Security Arming allows you to select which of the security system's inputs or sensors will be active and which will be bypassed at the time that the system is armed. (See the Table of Zones section.) Pressing  again within five seconds of arming the security system will activate the Multi-Level Security Arming feature. Each time  is pressed again, a different security level is selected. The different security levels can be selected as follows:




- Pressing  one time: The siren chirps once. The system is armed.
- Pressing  a second time within five seconds: The siren chirps twice followed by a long chirp. Zone Two is now bypassed.
- Pressing  a third time within five seconds: The siren chirps three times followed by a long chirp. Zone Four is now bypassed.
- Pressing  a fourth time within five seconds: The siren chirps four times followed by a long chirp. Zones Two and Four are now bypassed.
- Pressing  a fifth time within five seconds: The siren chirps five times followed by a long chirp. All input zones, except the ignition, are now bypassed.

NOTE: Multi-Level Security Arming only applies to a single arming cycle. Once the system is disarmed and then rearmed, all the zones will be active again.

Disarming

To disarm the system, press . You will hear two chirps, and the parking lights will flash twice. If the power locks are connected to the system, the doors will unlock. If the siren chirps either four or five times when disarming, refer to the Diagnostics section of this guide. This is called Tamper Alert.

High Security Disarm

This security system proudly offers High Security Disarm. High Security Disarm is a feature that makes it possible to silence and reset the system while it is triggering, without disarming the system. If the system is triggered, and the siren has been sounding for longer than six seconds, pressing  on the remote transmitter will stop the trigger and return the unit to the armed state. The system will not disarm, but rather reset. Pressing  a second time after resetting the system will disarm the system. Pressing  during the first six seconds of the triggered sequence will disarm the security system immediately. The six second timer is provided for your convenience, in case that the system is accidentally triggered.

High Security Rearm

High Security Rearm is a feature that protects your vehicle in the event that the security system is inadvertently disarmed. Two minutes after disarming the security system with the remote transmitter, the system will *automatically rearm and lock the doors*

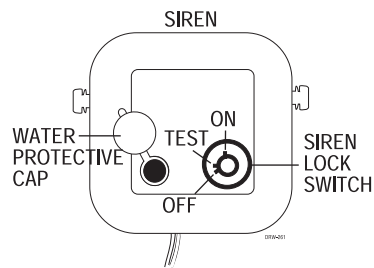
if a vehicle door has not been opened. Rearming will take place regardless of whether the system has been programmed for active locking/arming or passive locking/arming.

Disarming Without a Transmitter

This feature allows you to temporarily disarm the security system without the transmitter should it be lost or damaged. In order to disarm without a transmitter, you *must* have the siren key and know where the siren is located. Be sure to check with the installer for the location of the siren, which is required to disarm the system.

To temporarily disarm the system without the transmitter:

1. Open the vehicle hood and locate the siren in the engine compartment.
2. Remove the water protective cap on the back of the siren to expose the siren lock switch.
3. Insert the siren key into the siren lock switch and turn to the OFF position. The security system and security interrupts should now disarm.



When the system is disarmed with the siren lock switch, all the system's features are still operational, but the siren will not sound.

To reactivate the siren:





1. Turn the siren key back to the ON position.
2. Replace the water protective cap on the back of the siren.

Silent Mode

To temporarily turn off the arm or disarm chirps, use Silent Mode™. Simply press **AUX** for less than one second before arming or disarming the system, and the confirmation chirp(s) will be eliminated for that one operation only. If you want the arm/disarm confirmation chirps turned off permanently, your dealer can do this for you.

NOTE: The Warn Away® response to lighter impacts is bypassed if the system is armed using Silent Mode. This ensures that no chirps will be emitted by the siren in an area you want chirp-free. The system is still fully capable of triggering. Only the Warn Away® response is bypassed.

Panic Mode

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your remote! Just press  for 1 second, and you will enter Panic Mode. The siren will sound and the parking lights will flash for the programmed siren duration. To stop Panic Mode at any time, press , , or  on the remote.

Valet® Mode

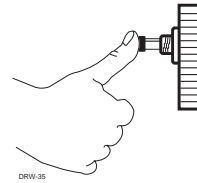
You can prevent your security system from automatically arming and triggering by using Valet® Mode. This is very useful when washing the vehicle or having it serviced. In Valet Mode, the system will not arm, even with the remote, but all convenience functions (door locks, trunk release, etc.) will continue to work normally. The security system *must be disarmed* in order to enter

Valet® Mode. You must also know where the Valet® switch is located. Be sure to check with your installer at the time of installation for the location of the Valet® switch.

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






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 solidly if you have entered Valet Mode, and it will go out if you have exited Valet Mode.

Remote Valet®

You may also enter or exit Valet Mode using your remote. Remember, the system must be disarmed in order to enter Valet® Mode. The operations described in this section refer to transmitter buttons. These buttons correspond to a Standard Configuration transmitter. This may not be how your transmitter is set up.

1. Open any vehicle door.
2. Press .
3. Press .
4. Press  again.

The status LED will light solidly if you have entered Valet Mode, and it will go out if you have exited Valet Mode.

Nuisance Prevention® Circuitry

Your system has DEI's Nuisance Prevention® Circuitry (NPC™). It prevents annoying repetitive trigger sequences due to faulty door pin switches or environmental conditions such as thunder, jack-hammers, airport noise, etc. Here's how it works:

The alarm triggers three times. Each time, the same sensor or switch is triggering the alarm. If the three triggers are within 60 minutes of each other, NPC™ will interpret this pattern of triggers as false alarms. After the third trigger, NPC™ 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 tries to trigger the security system while it is being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that continually triggers will remain bypassed.

Doors are covered by NPC differently: If the alarm is triggered by an open door for three full cycles, the doors will be bypassed until the trigger ceases.

NOTE: Arming and disarming the system does not reset this function! The only ways to reset a bypassed zone are for it to not trigger for 60 minutes, or to turn on the ignition. If testing your system, it is important to remember that the NPC programming can cause zones to be bypassed and appear to stop working. If five chirps are heard when disarming, NPC™ has been engaged. If you wish to clear the NPC™ memory, turn the ignition key on.

NPC™ is programmable. See Programming Options section of this guide.

[Diagnostics]

The microprocessor at the heart of your system is constantly monitoring all of the switches and sensors that are connected to it. It detects any faulty switches and sensors and prevents them from disabling the entire system. The microprocessor will also record and report any triggers that occurred during your absence.

Arming Diagnostics

If the system is armed while an input is active (door open, sensor triggering, etc.) the unit will chirp once when arming and then one more time a few seconds later. This is called Bypass Notification.

NOTE: Bypass Notification will not occur when using Silent Mode™ or if chirps have been programmed OFF.

The security system will ignore the input that was active when the system was armed, until the input goes away. Three seconds later the system will monitor that input normally. For example, if your vehicle has interior light exit delay, and you arm the system before the interior light goes out, you may hear Bypass Notification chirps. Once the light shuts off, however, the doors are monitored normally.

Disarming Diagnostics

Extra disarm chirps are the Tamper Alert. If four chirps are heard when disarming, the system was triggered in your absence. If five

chirps are heard, a zone was triggered so many times that Nuisance Prevention® Circuitry has bypassed that zone. In either case, the status LED will indicate which zone was involved (see Table of Zones section). The system will retain this information in its memory, and continue to chirp four or five times each time it is disarmed, until the next time the ignition key is turned on.


Table of Zones

The zone number is the number of LED flashes used by the system to identify that input. The standard input assignments are listed below, along with spaces to write in any optional sensors or switches you have had 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 Double Guard Shock Sensor	
3	Door switch trigger	
4	Multiplex - second stage trigger	
5	Ignition trigger	

If the Warn Away® response is triggered, the LED will not report it.

[Code Hopping]

The receiver and transmitters each use mathematical formulas called algorithms to change their codes each time the transmitter is used. This technology has been developed to increase the security of the unit. The control unit knows what the next codes should be. This helps to keep the transmitter "in sync" with the control unit even if you use the remote control out of range of the vehicle. However, if the transmitter has been pressed many times out of range of the vehicle, or the battery has been removed, it may get out of sync with the control unit and fail to operate the system. To re-sync the remote control simply press  of the transmitter several times within range of the vehicle. The alarm will automatically re-sync and respond to the transmitters normally.

[High Frequency]

Your system transmits and receives at 434 MHz. This provides a cleaner spectrum with less interference and a more stable signal. Enjoy a phenomenal increase in range – even in areas with high radio interference.

[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.

[Rapid Resume Logic]

This DEI® system will store its current state to non-volatile memory. If power is lost and then reconnected the system will recall the stored state from memory. This means if the unit is in 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 states of the system including arm, disarm, and Valet Mode.

[Power Saver Mode]

Your system will automatically enter Power Saver Mode while armed or in Valet Mode, after a period of time in which no operation has been performed. This lowers the current draw to prevent the system from draining the vehicle's battery. Power Saver Mode takes over under the following conditions:

- Power Saver when the system is armed: After the system has been armed for 24 hours, the LED will flash at half its normal rate, decreasing the system's current draw.
- Power Saver in Valet Mode: When the system enters Valet Mode the LED illuminates steadily. If the vehicle is not used (ignition is not turned on) for a period of one hour while the system is in Valet Mode, the LED will shut off. If the system remains in Valet Mode, the LED will come back on the next time the ignition is turned on and then back off.

[Programming Options]

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

The following is a list of the program settings, with the factory settings in **bold**:

- **Active** arming (only with the transmitter) or passive arming (automatic arming 30-seconds after the last door has been closed).
- Arming/disarming confirmation siren chirps **on** or off.
- The ignition controlled door lock feature **on** or off: With this feature on, the doors will lock three seconds after the ignition is turned on, and unlock when the ignition is turned off. The system can also be programmed to prevent the doors from locking when the ignition is turned on with any door open. Ignition lock and unlock are independent features and can be programmed separately.
- Passive door locking (with passive arming) or **active door locking** (only when arming with the transmitter). With passive locking, the vehicle's doors will lock when the security system passively arms (after the 30 second countdown). This feature only works if passive arming has been programmed.
- Panic mode can be programmed **on/off**.
- Forced passive arming **on** or off: If your system is programmed for passive arming and the forced passive arming feature has been programmed on, the system will passively arm after one hour, even if a protected entry has been left open. This feature is useful if a door has been left ajar when leaving the vehicle. Forced passive arming ensures that the security system will be armed in every situation.

NOTE: When the system passively arms after one hour, the entry point that has been left open, and anything connected to the same zone, is bypassed and cannot trigger the system. However, the remaining inputs to the system are fully operational.

- Automatic Engine Disable (AED) **on** or off: This feature is designed to prevent the vehicle from being stolen at all times, regardless of whether or not the alarm is armed. When AED is programmed on, the LED will flash slowly (one-half its normal armed rate) once the ignition key is turned off, to indicate that the AED arming cycle has begun. Thirty seconds later, the AED feature is active and will prevent the engine from being started. In order to disarm AED, you must press the disarm button on the remote. If the remotes are lost or stolen, you can also disarm the AED feature by turning the siren key to the off position. (Refer to the Disarming Without a Transmitter section of this guide.) AED is disabled when the system is in Valet® Mode.
- Full trigger response **25** or 50 seconds: This determines how long the full triggered sequence lasts. Some regions have laws regulating how long a security system can sound before it is considered a nuisance. If your installer is programming the security system with the DEI Bitwriter or a PC Programmer, the full triggered response can be programmed for any duration ranging from 1 to 180 seconds.
- Nuisance Prevention® Circuitry (NPC™) **on** or off: Please refer to the NPC section of this manual for a complete explanation of how NPC operates. If NPC is programmed off, the security system will respond to inputs from any sensor indefinitely.

NOTE: Because many regions have laws regulating security systems, programming NPC off may cause your system to violate state laws.

- Progressive door trigger **on** or off: When the system is armed and a door is opened, the system responds with ten chirps prior to beginning the full triggered sequence. For an instant trigger, the progressive door trigger can be programmed off.
- Siren chirp volume: The siren chirps can be programmed to full volume or **6 decibels quieter** than the full alarm blast.
- Ignition controlled domelight **on** or off: When programmed on, the interior domelight will turn on for 30 seconds after the ignition key has been turned off. If the system is armed before the 30 seconds has elapsed, the domelight will immediately turn off.
- Domelight supervision **on** or off: When programmed on, the interior domelight will turn on for 30 seconds whenever the disarm button on the remote is pressed. This feature can also be programmed to turn on the interior domelight whenever the ignition key is turned off. (See Ignition Controlled Domelight option.)

[Installation Options]

The system has many options that may require extra parts and labor. Some of the possibilities are listed here.

- **Progressive Unlocking:** In most cars with electric power door locks, the system can be configured so that when disarmed, only the driver's door unlocks. A second press of the disarm button within 15 seconds of disarming unlocks the other doors.

[Security & Convenience Expansions]

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

Audio Sensor: Metal on glass, glass cracking, and breaking glass each produce distinctive acoustic signatures. The 506T audio sensor uses a microphone to pick up sounds, and then analyzes them with proprietary acoustic software to determine if the glass has been struck.

Backup Battery: The 520T keeps the system armed, triggers the alarm and keeps the Security Interrupt active if main battery power is disconnected.

Field Disturbance Sensor: An invisible dome of coverage is established by installing the 508D "radar" sensor. Your security system can then react to any intrusions into this field with the triggered sequence.

Headlight and Parking Light Automation: The 545T Nite-Lite® will automatically turn on your parking and headlights when it gets dark. In addition, the 545T will turn your headlights on whenever the windshield wipers are used. A transmitter function can also be used to turn on your parking and headlights for a programmed time.

Power Trunk Release: The channel two output of the system can operate a factory power release for the vehicle's trunk or hatch. (An optional relay may be required.) If the factory release is not power activated, then DEI's 522T trunk release solenoid can often be added.

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

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 fuel-injected, automatic transmission vehicles.)

[Glossary of Terms]

Control Unit: The "brain" of your system. Usually hidden underneath the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the security system's functions.

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

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.

Security Interrupt: An series of automatic switches controlled by the security system which prevents the vehicle from starting whenever the system is armed.

Shock Sensor: A sensor on-board the control module that is designed to pick up vehicle impacts and some heavy glass impacts.

Siren: Noise generating device usually installed in the engine compartment of the vehicle. It is responsible for generating the "chirps" you hear, as well as the six tones you hear while the alarm is triggered. The security system's disarm function is also housed in the siren.

Transmitter: Hand-held remote control that operates the various functions of your system.

Trigger or Triggered Sequence: This is what happens when the alarm "goes off" or "trips". The triggered response of your system consists of 30 seconds of siren sounding and parking light flashing.

Valet® Switch: A small push-button switch mounted somewhere inside the vehicle. It is used to enter or exit Valet® mode.


Warn Away® Response: Lighter impacts to the vehicle will generate the Warn Away response. It consists of several seconds of siren chirps and parking light flashes.

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 often 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

- You can activate, or arm, the system by pressing  on your transmitter for one second. When the system arms, you will hear a short siren sound, or chirp, and the parking lights will flash once. If the vehicle's power door locks have been connected to the system, the doors will lock.

To disarm using your remote

- To disarm the system, press . You will hear two chirps, and the parking lights will flash twice. If power locks are connected to the system, the doors will unlock. If the siren chirps either four or five times when disarming, see Diagnostics section. This is called Tamper Alert.

To disarm the system without a remote

- **NOTE:** This procedure will also disarm Automatic Engine Disable (AED).
 1. Open the vehicle hood and locate the siren in the engine compartment.
 2. Remove the water protective cap on the siren to expose the siren lock switch.
 3. Insert the siren key into the siren lock switch and turn to the OFF position.The security system and the security interrupts should now disarm. To reactive the siren, simply turn the siren key back to the ON position and replace the water protective cap on the back of the siren.

To enter or exit Valet® Mode

- The system must be disarmed in order to enter or exit Valet® Mode. Turn ignition to "run" position, then turn to "off" position. Press and release the Valet® switch within 10 seconds. The status LED will light solid if you have entered Valet® Mode, and it will go out if you have exited Valet® Mode.

To activate Panic Mode

- Press and hold  down for 1 second.

To exit Panic Mode

- Press , , **AUX** on the transmitter.

To activate Silent Mode™

- Press **AUX** briefly before arming or disarming, and the confirmation chirp(s) will be eliminated for that one operation only.

Location of Valet switch _____

Location of siren _____

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.

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