

UltiMate Vehicle Systems

# UltiMate-EDP

**PRINTER NOTE:**

Temporary cover- color cover separate artwork

# Operation Guide

## *Vehicle Security Alarm System*

*for Factory-Equipped Remote  
Keyless Entry Transmitters*

**OR**

*with UltiMate Remote Control  
Transmitters*

**OR**

*with Echo Remote 2-way Controllers*

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Coin batteries used in the transmitter which is used to operate this security system may contain Perchlorate Material - special handling may apply. See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)

One or more of these patents may apply to this product:

#5,612,669 #5,654,688 #5,663,704 #5,729,191 #5,818,329 #5,612,578 #5,739,747  
 #382,558 #385,878 #5,750,942 #5,739,748 #5,719,551 #406,107 #701,285 #5,973,592  
 #5,982,277 #5,986,571 #6,011,460 #6,037,859 #6,049,268 #6,130,605 #6,130,606  
 #6,140,938 #6,140,939 #6,150,926 #6,144,315 #6,184,780 #6,188,326 #6,243,004  
 #6,249,216 #6,275,147 #6,297,731 #6,320,514 #6,320,498  
 Foreign Patent #199700312 #EP0817734B1 #98906445.6 #2,320,248 #701,285

----- **Echo 2-Way controller ONLY** -----

- 7) The controller will play another musical melody; this is the **Stop Melody** which plays when remote start engine run period ends. There are five different melody choices which can be made. **Press and release the “..” button** . Each press of the button changes to the next melody, note that the LCD screen displays a numeral, which is the melody number. When the desired musical tone has been the last one played, you may **leave the controller undisturbed for 12 seconds, until it chirps once OR press and release the “P” button to scroll back through the features.**
- While the controller programming must be “scrolled” through, programming mode can be exited at any point within the menu by simply not pressing any buttons for 12 seconds. The Echo chirps once when it exits programming mode.
  - If the Echo is configured for “MUTE” operation (vibrates instead chirping), then in programming it will not play the musical melodies. Instead, it vibrates when the remote starting Start Melody and Stop Melody are accessed for programming.

This device complies with FCC Rules part 15. Operation is subject to the following two conditions, (1) This device may not cause harmful interference and, (2) This device must accept any interference that may be received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

- A final point to remember is that the controller cannot receive a signal from the UltiMate-EDP while it itself is transmitting. For normal operations, the controller's buttons are pressed and released. Even when remote Panic is operated, the controller button should be released as soon as Panic engages. Otherwise, the controller cannot receive the signal from the system.

**Programming the Controller:** The Echo 2-way controller has several user-programmable features:

- **Chirp or Mute** The chirps may be turned off, and replaced with vibration.
- **Vehicle Type** Choices are a passenger car, pickup truck, or van/SUV.
- **Time Adjust** To set the controller's clock time.
- **Start Melody**; and **Stop Melody** These are played with remote starting. Programming these features is a sequential process- the controller is placed into programming mode, then each programmable operation is accessed in turn, and either changed as desired, or left as is, and then the next step is accessed. Programming is done using the Echo unit's three round side buttons:

- 1) **Press and hold the "P" button** A- At this time **Chirp or Mute** can be chosen by pressing the **OR** the ".." button for 1 second.  
B- Hold this button for 5 seconds to enter programming mode.
- 2) **After 5 seconds the controller chirps twice; release the "P" button;** the upper rear of the vehicle will flash; **Vehicle Type** may be chosen.
- 3) **Press and release the ".." button;** each press of the button changes the vehicle from Passenger Car, then to Pickup Truck, and then to Van/SUV. When the desired type is flashing, **press and release the "P" button;** the Time's "Hours" will flash, and may be set now.
- 4) **Press and release the ".." button** to advance the hours, or **press and release the ".." button** to reverse the hours. When the Hours are correct (please note "AM" or "PM"), **press and release the "P" button.** The Time's "Minutes" will flash, and may be set now.
- 5) **Press and release the ".." button** to advance the minutes or **press and release the ".." button** to reverse the minutes. When the minutes are correct **press and release the "P" button.** The controller will play a musical melody; this is the **Start Melody** which plays upon remote starting. One of five melodies may be chosen now.
- 6) **Press and release the ".." button.** Each press of the button changes to the next melody, note that the LCD screen displays "S" and a numeral, which is the melody number. When the desired musical tone has been the last one played **press and release the "P" button.**

## Introduction

Welcome to the convenience and protection offered by your UltiMate Vehicle Systems security system. UltiMate security systems are designed and manufactured by Omega Research and Development, a world leader in vehicle convenience and security since 1975. Your system offers easy, carefree operation, and its modular design allows its many impressive features to be customized to suit your needs. This sophisticated, state-of-the-art product deters theft of your vehicle and its contents. UltiMate Vehicle Systems products are designed for professional installation, and are available only through new car retail outlets and selected mobile electronics specialist dealers.

**This Operation Guide describes the UltiMate-EDP. The UltiMate-EDP is a state-of-the-art system, which can be configured during its installation to:**

- **Add fully-featured antitheft function and protection to the vehicle's existing factory-installed remote keyless entry system, using the factory remotes.**
- **Use its own 1-way key fob remote transmitters to operate the security system.**
- **Or use a more sophisticated 2-way LCD remote controller, which operates the security system AND also receives pages from the security system, confirming operations and giving notice of system violation events.**

This Operation Guide describes typical operations of all forms of the UltiMate-EDP. Please further note that this guide is written to reflect:

- That the Programmable Features are in the default settings; the operations of these features, and the programming process for them, are explained in detail in the latter part of this guide.
- That the vehicle's existing horn is used for the system's audible output; an optional electronic siren is also available.
- That a power doorlock interface is installed with your system if required. (the vehicle power doorlocks operate the UltiMate-EDP when it is added to factory keyless entry, but when used its own transmitter or the Echo the UltiMate-EDP operates the vehicle power doorlocks)

## The Status Light and Valet Switch

In all of its forms the UltiMate-EDP has two important user components placed within the vehicle.

- The red **Status Light** informs you at a glance which of the different conditions the security system is in, and also serves as a visual deterrent to break-ins and theft.
- The **Valet Switch** is used to access Valet Mode, which allows the operator to suspend some of the security system's normal functions for as long as desired. And, if needed the Valet Switch may be used to override and disarm the system's programmable features.

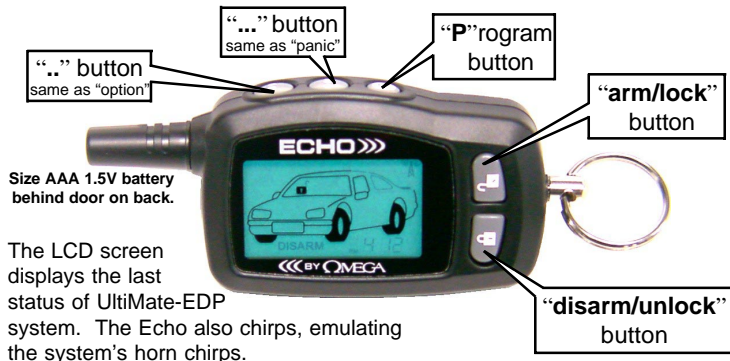
## The UltiMate 1-Way Transmitter

If the UltiMate-EDP includes its own transmitters, the arrangement is:



## The Echo 2-Way Controller

If the UltiMate-EDP includes the Echo 2-way controller, the arrangement is:



## ----- Echo 2-Way controller ONLY -----

- The "CARJACK" icon within the vehicle's front tag frame indicates that this operation has been activated, which can be performed by any of three methods.
- On the vehicle's windshield is a "hammer" and "impact" icon. When the shock sensor detects light impact, causing the system to prewarn, the "impact" icon alone will momentarily appear, accompanied by three chirps. If the sensor detects a harder impact or breaking glass, activating the system, the full hammer and impact icon appears, and the controller chips until any button is pressed, and the icon remains flashing until the ignition switch is turned on.
- The "DOOR" icon will indicate that the system was activated via the door detection circuit. The controller chirps until any button is pressed, and the icon remains flashing until the ignition is turned on.
- If an optional remote start unit is added to the UltiMate-EDP, the "start" icon at the rear of the vehicle can confirm remote starting, and it is accompanied by a musical melody. The Additional Output must be operated first, and then if the UltiMate-EDP detects that the ignition circuit is turned on it will display this icon, and then turn it off, with a melody, when it detects the ignition off.
- The "2" within a circle indicates use of the Option Output, which is most commonly used for remote trunk release.
- The "transmitting tower" icon is an in-range indicator. It is present if the last transmission by the controller was answered by a return signal from the system. Should the controller be operated, and no return signal is received, this icon will disappear.
- The various lines at the upper rear of the vehicle graphic represent a unique Echo feature which allows the user to customize the vehicle type represented by the display. Options are: passenger car, pickup truck, and sport utility/van.

### Notes about the Controller and its operation:

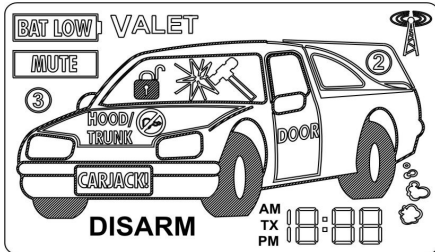
- The system will only transmit a signal to the controller if it was last used to operate the system (as in arming or disarming it). Example: if the 1-way transmitter is used to arm the alarm, the system will not transmit a signal which will cause the 2-way controller to chirp and change its icons.
- If multiple controllers are programmed to operate the system, the system will send a page signal to only one controller- the last one used.
- When the UltiMate-EDP does send a signal to the controller, a few seconds is needed for this wireless "handshake" to occur. If the system is operated in a rapid fashion, as in quickly repeating arm and disarm cycles, the controller will not have time to receive the signal from the system, and therefore it will stop responding and reporting the system's status. Normally operating the system corrects this symptom.

## The Echo 2-Way Controller

The four system- operating buttons are described throughout this guide, as part of the UltiMate-EDP's normal operations. This section explains the controller's icons, and how to program the controller's features.

**Controller Icons:** The LCD screen on the controller has various icons which indicate system status. When the controller is used to operate the system, it receives back a signal which causes it to chirp (emulating the siren) and display the appropriate icons. Brief descriptions of the icons are:

- The digit readout is a clock, with AM and PM indication. This readout also shows how many controllers and/or transmitters are programmed to operate the system.
- The "DISARM" also shows "ARM"; to indicate the arm or disarmed status of the system. Neither icon is present when the system is in Valet Mode.
- The locked or unlocked padlock (windshield) reflects the locked or unlocked doors status as last operated by the Crime Guard system (certain programmable features can automatically arm the system, but not lock the doors). Arming with the controller or transmitter always locks the doors; when disarming they will unlock unless the system is activated and sounding.
- "VALET" indicates alarm Valet Mode, replacing the "ARM" or "DISARM" icons. A musical tone occurs when placing the system into Valet Mode.
- When "BAT LOW" appears the transceiver's 1.5 volt AAA battery should be replaced with a new battery.
- The controller's chirps and musical tones may be turned off, which makes the unit vibrate instead; "MUTE" indicates this state.
- The "3" within a circle appears when the Additional Output is operated.
- "HOOD/TRUNK" indicates that this vehicle zone is or has been violated. If associated with the system being activated, the controller also emits chirps, until any button is pressed. In this case, the icon remains flashing until the ignition switch is turned on.
- The "crossed-out key" icon, on the hood area, only appears when the controller is used with systems having built-in remote starting. This icon indicates an aborted remote starting due to a violated safety circuit. The UltiMate-EDP can be used with an optional remote starting unit; the remote "start" icon (below) will operate, but not this icon.



## Arming the System

"Arming" places the UltiMate-EDP into a state which monitors the vehicle for intrusion attempts. There are two different methods of arming the system: "Active Arming" by deliberate use of the remote transmitter, or automatically, which is "Passive Arming" (actually "Last Door Arm") which can be enabled or disabled.

### Active Arming

Provided the vehicle's ignition switch is off and the system is not in Valet Mode, the UltiMate-EDP can always be armed with the factory remote transmitter, UltiMate transmitter, or Echo controller by simply pressing the transmitter LOCK button once. The doors will lock, the parking lights will flash once the vehicle's horn will chirp once, the Status Light will begin flashing, and the starter interrupt circuit engages to prevent any attempt to start the vehicle. Three seconds after the horn chirp the system becomes fully armed.

In addition to chirping the horn once and flashing the lights once, the red Status Light inside the vehicle will start flashing. In many cases (depending upon how the UltiMate-EDP is configured) the vehicle's interior lights will also flash like the parking lights.

----- Echo 2-Way controller ONLY -----

If the Echo 2-way is used to arm the UltiMate-EDP, it will also chirp like the horn chirps, and its LCD screen will display "arm" and "locked" icons.

**Arming Bypass** When arming the system from the remote transmitter, should any protected circuit (except for the doors) be in a violated state, the horn will chirp three times and the parking lights will flash three times. This is "Arming Bypass"; when it occurs, protection for the affected circuit only will be temporarily bypassed. For example, should the trunk be left open, you can still actively arm the system, but it will have the three chirp and three flash indication that a protected circuit is not secure. Once the system has armed, the bypassed circuit will automatically be reinstated for protection should it become non-violated (i.e.- if the trunk is closed). When a circuit is in a bypassed state, all other non-violated monitoring circuits, such as doors or hood, will be protected. The door protection circuit also has the Arming Bypass feature, but with the arming indication of one chirp and one light flash. Arming Bypass is only associated with Active Arming the system, and not Passive Arming.

----- UltiMate transmitter & Echo 2-Way controller ONLY -----

**Silent Arming** A disarmed system may be armed without the normal confirmation horn chirp by pressing and releasing the transmitter's OPTION or the controller's "." button twice within 3 seconds. Silent Arming is only associated with Active Arming the system, and not Passive Arming.

## Passive Arming

The UltiMate-EDP can be programmed to arm itself automatically when the vehicle's last door is closed; this is the **"Last Door Arming"** feature. If this feature is selected, the moment that the last open door is closed the horn will chirp once and the lights will flash once to confirm that all points of entry are closed, and that the passive arming sequence has begun.

### ----- Echo 2-Way controller ONLY -----

The Echo will also chirp when last door is closed, and then when system becomes fully armed 30 seconds later it will chirp again, and display the "arm" and "locked" icons

This arming sequence lasts 30 seconds, and is indicated by a fast-flashing Status Light. Thirty seconds after the last door was closed, the horn will chirp again, and the lights will flash once again, confirming completion of the Last Door Arming sequence. When this occurs the Status Light changes to flashing slowly, and the system is fully armed three seconds later. If a point of entry is reopened before the single chirp and light flash occurs at 30 seconds, the Last Door Arming sequence stops, but will start over again when the opened point of entry is closed again. To temporarily prevent the system from Last Door Arming (such as while the vehicle is being refueled), you should put the system into Valet Mode or leave the vehicle's door open (in some cases, turning on the dome light will suffice). One important aspect of the Last Door Arming's operation is to remember that the ignition switch has to be on, turned off, and then the vehicle door closed to initiate the Last Door Arming. Opening and closing a door without first turning on and off the ignition switch will not initiate Last Door Arming.

The previously mentioned Arming Bypass feature cannot operate with Last Door Arming; it only works when actively arming the system from the transmitter because all protected entries must be closed to initiate Last Door Arming. Of course, you can still arm the system instantly from the remote transmitter at any time during the 30 second Last Door Arming sequence.

A separately programmable feature may be utilized to have the doors automatically lock (if connected) when the 30 second horn chirp and light flash occurs. The Last Door Arming feature offers a high level of security, since you do not have to remember to arm the system each time you exit your vehicle.

**Automatic Rearming** is a similar, yet different form of passive arming. Automatic Rearming has the UltiMate-EDP automatically rearm itself after it has been remotely disarmed, if a door does not open or if the ignition switch is not turned on within 90 seconds after the disarming. This is a programmable feature, #3, which may be turned on if desired; it is defaulted off. A separate programmable feature, #8, will have the doors lock (if connected) when the system automatically rearms itself.

## Programmable Feature #28

### PANIC Button Operates Additional Output: Default OFF

This feature changes the fourth button operation of the UltiMate transmitter or Echo controller. In both cases, the "as received" operation of the UltiMate transmitter PANIC button or Echo controller's "..." button is remote Panic. Turning this feature on moves the Additional Output from buttons LOCK and UNLOCK pressed together, to the UltiMate transmitter's red PANIC button or to the Echo controller's "..." button.

**Note-** this feature only operates if the system is being used UltiMate transmitters or the Echo controller; it will not operate if the UltiMate-EDP is being operated by the factory keyless entry transmitter.

## Programmable Feature #29

### Transmitter-Activated Anti-Carjacking Protection: Default OFF

This feature will activate the Anti-Carjacking operation (see description in feature #25) if the transmitter's LOCK and UNLOCK are pressed together for 3 seconds while the ignition is on.

**Note-** this feature only operates if the system is being used UltiMate transmitters or the Echo controller; it will not operate if the UltiMate-EDP is being operated by the factory keyless entry transmitter.

## Installer Programmable Feature #30

### Doorlock Outputs In "Add-on" Mode: Default OFF

This installer feature has the UltiMate-EDP operate its doorlocking outputs when the system is armed and disarmed by the factory remotes.

**This feature should NOT be changed by the end user.**

## Programmable Feature #25

### Ignition-Activated Anti-Carjacking Protection: Default OFF

This is one of three forms of Anti-Carjacking protection offered by the UltiMate-EDP. When this feature is turned on, the vehicle operator must press the Valet Switch once within 60 seconds after turning the ignition switch on and starting the vehicle.

If this is not done, the system will begin chirping the horn 53 seconds after the ignition was turned on. These chirps are a reminder warning that the Anti-Carjacking protection is about to engage; pressing the Valet Switch before the 60 seconds expires will stop the anti-carjacking protection feature. Once the chirping starts it will last for 7 seconds. Unless the Anti-Carjacking feature is cancelled as described, if 60 seconds passes from the time the ignition was turned on, the horn will change from quick chirping to fully sounding, and the parking lights will begin flashing. Thirty seconds after this occurs, or if the ignition is turned off, the starter interrupt circuit will also activate. Once the Anti-Carjacking is fully engaged, i.e. sounding the horn and flashing the lights, the only way to disengage it is to turn the ignition off, then on again, and then press the valet switch within 5 seconds.

## Programmable Feature #26

### Door-Activated Anti-Carjacking Protection: Default OFF.

This feature's operation is the same as described in the previous section, with the exception that it is activated by the opening of a door any time after the ignition switch is on. Once the engine is running, if a door is opened the Valet Switch must be pressed before 60 seconds expires. Otherwise, the operation of this feature is identical to that described for above for feature #25 "Ignition Activated Anti-Carjacking Protection". This, the previous feature and feature #29 are independently programmable, and any of them may be programmed to operate alone or with the other two Anti-Carjacking features.

## Programmable Feature #27

### Open Door Warning Upon Arming: Default OFF

When this feature is programmed to operate, if one of the vehicle's doors is open when the system is armed using the remote transmitter, the horn will chirp 3 times instead of once, and the parking lights will flash three times instead of one time. This feature only works when arming the system with the transmitter (factory keyless entry, UltiMate or Echo); it does not work with Last Door Arming or Automatic Rearming.

# The Armed System

When the UltiMate-EDP is armed, the Status Light flashes continuously in a slow and steady manner. In this state, any violation of a protected entry will instantly activate, or "trigger" the system. When this occurs:

- The vehicle's horn (or the optional electronic siren) will sound. The horn will repeatedly sound for one second, then pause for one second. This audible output will sound for the duration of the activated cycle. *Or, the optional electronic siren will sound in place of the horn.*
- The parking lights will flash on and off repeatedly. And if connected, the interior lights will also flash.

#### ----- UltiMate transmitter & Echo 2-Way controller ONLY -----

- If the power doorlocks are connected to the UltiMate-EDP, they will relock; should a door be open, the doors will relock when it is closed.

#### ----- Echo 2-Way controller ONLY -----

- The Echo will chirp for 15 seconds, unless silenced by pressing any of its buttons. It will also display a flashing icon showing which protected zone was violated, to cause the alarm's activation.

The horn will sound and lights will flash for 60 seconds (or, this may be programmed to be 30 seconds), unless you disarm the system using the remote transmitter. If needed, the Valet Switch and ignition key may be used to disarm the UltiMate-EDP system (Emergency Override; page 11).

Whenever the UltiMate-EDP is armed, it engages a starter interrupt circuit. If such a starter interrupt is installed, if an attempt is made while the system is armed, the starter will not engage.

When the system has activated, if all protected entries are secure at the end of 60 seconds, the system will stop itself and rearm automatically to detect any further entry attempts. If there is a protected entry still open, or if an optional sensor is still in a violated state, the system will reactivate for two more 60 second cycles. If this occurs, the system will stop itself after a total of 3 cycles rearm automatically, and ignore the open entry or violated sensor circuit while protecting the other circuits. Should the violated entry be closed or the sensor return to normal, protection will be reinstated for the affected circuit.

After the security system is activated and resets itself, the confirmation upon disarming will no longer be the normal two horn chirps, and the lights flashing twice then illuminating. Instead, the system will have 4 horn chirps and the lights will flash 4 times before illuminating. Anytime the system is activated, the Status Light will change to flashing two to five times between pauses, indicating which protected zone caused the system to activate. The Status Light will continue flashing this **Violation Code** until the ignition key is turned on (see page 12 for these Violation Codes).

# Disarming the System

"Disarming" is the reversal of the UltiMate-EDP being armed; when the system is disarmed it is not monitoring the vehicle for intrusion attempts, and normal vehicle use and operations are allowed.

The UltiMate-EDP may be disarmed with the factory remote transmitter, UltiMate transmitter, or Echo controller by simply pressing the transmitter UNLOCK button once.

**If the factory remote transmitter, the UltiMate transmitter, or the Echo controller is not available or inoperative, the system may also be disarmed by using the vehicle ignition key and the Valet Switch to Emergency Override the system, which is explained on page 11.**

Disarming is confirmed by the horn chirping twice and the parking lights flashing twice, then turning on for 30 seconds to illuminate the way to your vehicle. The vehicle's interior lights, if connected to the UltiMate-EDP, will also flash twice and then turn on. During this 30 second period of illumination, if the ignition switch is turned on the lights will immediately turn off.

### ----- Echo 2-Way controller ONLY -----

If the Echo 2-way is used to disarm the UltiMate-EDP, it will also chirp like the horn chirps, and its LCD screen will display "disarm" and "unlocked" icons.

Upon disarming the UltiMate-EDP, if the system was activated and reset while you were away, the disarm confirmation will be 4 horn chirps, and the lights will flash 4 times before staying on for 30 seconds. The system will continue to have this disarming response until the ignition switch is turned on. Also, anytime the system has been activated, upon disarming, the Status Light will indicate which of the protected zones caused the activation by flashing a code of numbered flashes between pauses. This Zone Violation indication will remain present until the ignition switch is turned on.

### ----- UltiMate transmitter & Echo 2-Way controller ONLY -----

**Silent Disarming** If the system is armed, it may be disarmed without the normal confirmation chirps by pressing and releasing the transmitter's OPTION or controller's "... button twice within 3 seconds.

### ----- UltiMate transmitter & Echo 2-Way controller ONLY -----

**Safety Disarm** If the activated system is disarmed using the UltiMate remote transmitter or the Echo 2-way, by pressing the UNLOCK button, the system will only disarm and not unlock the doors. This is Safety Disarm feature. In this situation, to then unlock the doors, simply press the UNLOCK button again to unlock the doors. When the UltiMate-EDP is used with factory keyless entry remotes, Safety Disarm will not operate; unlocking the doors with the factory remote will simply disarm the UltiMate-EDP.

## Installer Programmable Feature #21

### Pulsed Horn or Steady Siren Output: Default Pulsed Horn

This feature allows the choice of using an optional electronic siren for the audible output of the security system instead of the vehicle's horn. When programmed for use with a vehicular horn, this output pulses on and off for the duration of the activated alarm period. When programmed for siren use, the output is steady and continuous. When programming, pressing the transmitter's LOCK button sets the pulsed horn, and pressing the UNLOCK button sets the steady siren.

**This feature should NOT be changed by the end user.**

## Programmable Feature #22

### Horn Chirp Level: Default Medium Soft

This feature allows an adjustment in the horn confirmation chirp volume. When programming this feature, the remote transmitter's LOCK button sets "Medium Soft" chirps (the default setting); the UNLOCK button sets "Soft" chirps. The UltiMate transmitter OPTION button, or Echo controller's "... button sets "Medium Loud" chirps. The UltiMate transmitter PANIC button, or Echo controller's "... button sets "Loud" chirps. If the UltiMate-EDP is being used with factory keyless entry transmitters, only the Medium Soft chirp and Soft chirp setting are available.

## Installer Programmable Feature #23

### Total Closure Lock Output: Default OFF

If the vehicle is has an existing total closure feature, this programmable feature allows the installer the option of interfacing the UltiMate-EDP to operate it. Typically, this option would close all windows and the sunroof, in addition to locking the doors, when arming the system. Consult with the installer on this option, as the vehicle must already be properly equipped to utilize this feature.

**This feature should NOT be changed by the end user.**

## Installer Programmable Feature #24

### Alarm Functions Bypass: Default OFF

This feature converts the system into a Remote Keyless Entry System only by eliminating all anti-theft alarm-oriented operations and features. When this feature is programmed on, the UltiMate-EDP has remote keyless entry operation only.

**This feature should NOT be changed by the end user.**



## Programmable Feature #16

### Disarm Alarm Upon Trunk Release: Default ON

This feature automatically disarms the system when the OPTION button is pressed to operate the Option Output (trunk release). If this feature is turned off, the trunk release will still operate, but the system will remain armed. When this feature is on, activating the trunk release will be accompanied by two horn chirps and the lights illuminating (if the previous feature is "on") to confirm disarming; when this feature is off there are still two confirmation chirps, but no light illumination. **Note-** this feature only operates if the system is being used UltiMate transmitters or the Echo controller; it will not operate if the UltiMate-EDP is being operated by the factory keyless entry transmitter.

## Installer Programmable Feature #17

### Parking Light Override: Default OFF

This installer feature changes how the UltiMate-EDP reads the vehicle's wiring circuits, and is used in some cases when the UltiMate-EDP is installed to be operated by the factory keyless entry transmitters.

**This feature should NOT be changed by the end user.**

## Installer Programmable Feature #18

### Doorlock Pulse Time .8 or 3 Seconds: Default .8 Second

This installer feature allows the installer to accommodate certain vehicles which have power door locking systems requiring a longer output pulse to operate properly.

**This feature should NOT be changed by the end user.**

## Installer Programmable Feature #18

### Double Unlock Pulse: Default OFF

This is another installer programmable feature, related to the power doorlocks. Some vehicles require a double pulse to remotely unlock the doors and/or to disarm a factory-equipped security system.

**This feature should NOT be changed by the end user.**

## Installer Programmable Feature #20

### 3 or 45 Second Arming Delay: Default 3 Seconds

Some installation situations require an extra amount of time for the system to become fully armed. This feature lets the installer change the delay of the full arming of the system to 45 seconds. When the 45 second arming delay is used, it adds 45 seconds to all three forms of arming: active arming from the transmitter, and passive arming by Last Door Arming and Automatic Rearming.

**This feature should NOT be changed by the end user.**

In most cases remotely opening the vehicle's trunk or rear hatch will also disarm the UltiMate-EDP, with the same system disarming responses described above. Even when it is installed as security added to a factory keyless entry system, the UltiMate-EDP has this capability. If the UltiMate-EDP is being used with UltiMate transmitters or the Echo controller, remotely opening the trunk or hatch will automatically disarm the system, and the operation is programmable. If desired, remotely opening the trunk can be programmed to not disarm the system.

### ----- UltiMate transmitter & Echo 2-Way controller ONLY -----

**Unlocking Priority** When equipped with the UltiMate transmitter or the Echo 2-way controller, the UltiMate-EDP can selectively unlock the doors, if the system was originally installed for this type of operation. When configured this way, pressing the remote transmitter's UNLOCK button once disarms the system and unlocks the driver's door only; another press of the UNLOCK button will unlock all of the doors.

## The Valet Switch - Valet Mode and Override

The Valet Switch allows the operator to suspend certain functions of the UltiMate-EDP's normal operations, especially preventing the system from becoming armed. It can also be used for an emergency override disarming of an armed and activated system, should the remote transmitter be unavailable or inoperative. These are two separate and distinct operations: the first is **Valet Mode**, whereby a *disarmed* system may be placed into an "off" condition (Valet Mode) without use of the ignition key; the second operation is **Emergency Override**, which will disarm an *armed or activated* system and requires the use of the ignition key. The Valet Switch is also used in features programming operations, which are described in later sections of this Operation Guide.



The Valet Switch is typically contained within the same housing as the Status Light (upper left, is the bottom of this housing), or the installer may have placed it in its own hidden location (lower left, is the Valet Switch itself). In either case, the Valet Switch should be readily accessible, and if you are unaware of its location, have the installing dealer show you its location and explain its operation. The Valet Switch is a critical part of your UltiMate-EDP system!

## Valet Mode

This feature is used to prevent the UltiMate-EDP from becoming armed, and can be utilized anytime the security system is in the disarmed state. Whenever the security system is disarmed, simply press and hold the Valet Switch for 1.2 seconds to enter the Valet Mode. The system will confirm it has entered Valet Mode with two horn chirps, two light flashes and the Status Light will illuminate and stay on constantly. The system will remain in Valet Mode until it is removed, regardless of whether the ignition is turned on or off, or even if the vehicle's battery is disconnected and reconnected.

**While in the Valet Mode**, the remote keyless entry system will still operate the vehicle's power door locks, but the UltiMate-EDP will not arm, nor will it arm even if Last Door Arming has been programmed to operate. Valet Mode prevents the system's alarm functions from becoming armed. The transmitter (factory, UltiMate or Echo) can still be used to lock and unlock the doors, but the system will not arm, nor will it engage the starter interrupt. When the doorlocks are operated remotely when the UltiMate-EDP is in Valet Mode, there will still be light flash confirmations, but no audible chirps (although chirps can be programmed). In addition to the constantly illuminated Status Light, every time the ignition switch is turned off the system will chirp the horn once as a reminder of Valet Mode. When the system is in Valet Mode, the doors will lock when the ignition is turned on and unlock when it is turned off, if programmed to do so.

### ----- Echo 2-Way controller ONLY -----

When the system is placed into Valet Mode the Echo will play a melody and display the "valet" icon. Removing the system from Valet Mode will again play a melody, and turn off the "Valet" icon.

If the doors are remotely locked and unlocked with the Echo while the UltiMate-EDP is in Valet Mode, it will confirm to the user by change its LCD screen "Lock" and "Unlock" icons accordingly, but it will not have chirps or show the "Arm" or "Disarm" icons, because the system is in Valet Mode (the "Valet" icon will be displayed).

**To remove the system from the Valet Mode**, simply press and release the Valet Switch at any time. The system will instantly revert to the disarmed condition, as confirmed by the Status Light, which will instantly extinguish from its previously illuminated steady state. Remember that Valet Mode can be accessed only when the system is disarmed - an armed state or fully activated state requires using the Emergency Override.

## Programmable Feature #11

### Open Door Bypass To Previous Two Features: Default ON

This feature only operates in conjunction with the previous two feature's ignition-activated door locking and unlocking operations. Having this feature on, along with either of the previous two features, will cancel any ignition switch related automatic doorlock operations if a door is open at the time the ignition switch is turned on or off. For example, if the system is programmed to unlock the doors when the ignition is turned off, if a door is opened before turning the ignition off, the doors will not automatically unlock. **Note-** the vehicle's power doorlocks must be connected to the UltiMate-EDP; especially in the case of the UltiMate-EDP being operated by the factory keyless entry transmitter.

## Programmable Feature #12

### Confirmation Chirps: Default ON

This feature removes the audible arming and disarming confirmation horn chirps (or optionally, siren chirps). This feature is the "full time" removal of the confirmation chirps; otherwise temporary onetime silent operation may be achieved when desired by pressing and releasing the transmitter's OPTION button twice when arming or disarming the system (if an UltiMate transmitter or Echo controller is used). Even if this feature is used to remove the confirmation chirps, the chirps during features or transmitter programming will still operate.

## Programmable Feature #13

### Confirmation Chirps While In Valet Mode: Default OFF

While the system is in the valet mode, the transmitter will still remotely lock and unlock the vehicle's doors. This feature adds the confirmation horn chirps if the transmitter is used to lock or unlock the doors while the system is in valet mode.

## Programmable Feature #14

### Activated Alarm Cycle 60 or 30 Seconds: Default 60 Seconds

This feature offers a choice of activated alarm durations. When programming, pressing the remote transmitter's LOCK button sets the cycle at 60 seconds, and pressing the UNLOCK button sets the 30 second time.

## Programmable Feature #15

### Lights On Upon Disarm: Default ON

This feature turns on the parking lights (and interior lights if connected) for 30 seconds after the two flashes upon disarming the system. The longer time allows inspection of the area around and inside the vehicle when approaching in the dark. When programming, pressing the remote transmitter's LOCK button sets the lights being on for 30 seconds, and pressing the UNLOCK button configures the system to only flash the lights twice.

## Programmable Feature #6

### Ignition Activated Override: Default OFF

This feature allows an activated system to be overridden and disarmed by simply turning the ignition switch on within 10 seconds of the system's activation. After 10 seconds, Just turning the ignition on will not disarm the system, but transmitter or the Emergency Override can still be used to disarm the system.

## Programmable Feature #7

### Doors Lock With Last Door Arming: Default OFF

This feature adds the locking of the doors to feature #2, Last Door Arming. When the system automatically arms 30 seconds after the vehicle's last door is closed, the doors will also lock. **Note-** the vehicle's power doorlocks must be connected to the UltiMate-EDP; especially in the case of the UltiMate-EDP being operated by the factory keyless entry transmitter.

## Programmable Feature #8

### Doors Lock With Automatic Rearming: Default OFF

This feature adds the locking of the doors to feature #3, Automatic Rearming. If the system is allowed to automatically reararm 90 seconds after being disarmed from the transmitter, this feature will have the doors also lock. **Note-** the vehicle's power doorlocks must be connected to the UltiMate-EDP; especially in the case of the UltiMate-EDP being operated by the factory keyless entry transmitter.

## Programmable Feature #9

### Doors Lock With Ignition On: Default ON

This feature automatically locks the vehicle's doors 1.75 seconds after the ignition switch is turned "on". **Note-** the vehicle's power doorlocks must be connected to the UltiMate-EDP; especially in the case of the UltiMate-EDP being operated by the factory keyless entry transmitter.

## Programmable Feature #10

### Doors Unlock With Ignition Off: Default ON

This feature automatically unlocks the doors instantly when the ignition switch is turned off. Even if the UltiMate-EDP is configured to remotely operate the vehicle's doorlocks as "driver door priority unlock", this feature will unlock all of the doors. **Note-** the vehicle's power doorlocks must be connected to the UltiMate-EDP; especially in the case of the UltiMate-EDP being operated by the factory keyless entry transmitter.

## Emergency Override

In the event the remote transmitter is lost, damaged, or it is otherwise inoperable, and the UltiMate-EDP can not be disarmed by its normal means, the Valet Switch and your ignition key can be used to disarm the system. Emergency Override still offers a high level of security because the vehicle's ignition key is also required. Additionally, for even higher security, if desired two separate stages of pressing the Valet Switch may also be custom programmed as a requirement to accomplish the disarming of the system. Each of these two stages may be programmed to be 1 through 9 presses of the Valet Switch. This programmable feature is **Selectable Coded Override**, and it is explained in more detail on page 20.

**The factory-set default for Selectable Code Override is one press at stage 1, and **NO** press at stage 2;** this is the most convenient and user-friendly setting. Therefore, the following step-by-step instructions reflects first the default setting, and then continues to explain the custom-programmed setting.

### How to Disarm the System by Emergency Override

- Step 1 -** While the system in the armed condition, enter via the driver's door. Be aware that the system will activate when the door is opened, sounding the horn, flashing the lights, and locking the doors if the door entered is closed again before disarming the system.
- Step 2 -** Using your key, turn the ignition on. The following step must be performed within the next 10 seconds.
- Step 3 -** Press and release the Valet Switch equal to the number programmed for stage #1; the factory setting is one. **If the default setting of 1 and 0 presses is retained, press and release the Valet Switch once and the system will instantly disarm, as indicated by two horn chirps.**

If stage #2 presses have been programmed, the system will not disarm, but pause and chirp the horn before continuing to sound. When a stage #2 entry is required, at this point the stage #2 entry must be made within 10 seconds. If both stage's entries are correct, the system will disarm shortly after the stage #2 entry. After a failed attempt to achieve Emergency Override, the ignition switch must be turned off, then on again before another attempt is made. If two failed Selectable Code Override attempts are made, the system will ignore any further presses of the Valet Switch for two minutes. If this occurs, the system will reset to the armed state, then sound the horn twice after 2 minutes to indicate that another attempt may be made to achieve Emergency Override. See page 20 for further information on customizing the Selectable Code

Override.

Once the system is disarmed, then it can be placed into Valet Mode if desired, using the procedure previously described. Remember, if the Selectable Code Override factory setting of "stage #1, one Valet Switch press and stage #2, no Valet Switch press" is present, simply pressing the Valet Switch once within 10 seconds of turning the ignition switch on will override and disarm the system.

## The System Status Light

The Status Light indicates several system conditions; which can be categorized into three areas: System Status, Zone Violation and Automatic Transmitter Verification (only if UltiMate transmitters or Echo controllers are used).

**System Status:** The Status Light is always a visual indicator of what state the security system is in at any given time. It is normally positioned in a location that is easily observed by the driver. There are four possible status conditions that the system can be in, as reflected by the Status Light:

- Off = The system is disarmed, and not performing any automatic arming functions.
- On Constant = The system is in the Valet Mode.
- Flashing Slow = The system is armed.
- Flashing Fast = The Last Door Arming or Automatic Rearming features are in progress.

**Zone Violation:** If the system has been activated, the Status Light will start to flash and pause the following coded sequences to indicate which protected circuit caused the activation. This type of indicator supersedes the above "normal use" indicators, and will be seen until the ignition switch is turned "on", which clears the system's memory. The system's memory can store multiple codes, and if multiple violations involving different zones occurred, the different zones will be shown in the order of the violation.

- Flash-2x & Pause = The system was activated from the hood or trunk circuit.
- Flash-3x & Pause = The system was activated from the door circuit.
- Flash-4x & Pause = The system was activated from the optional sensor input.

----- **UltiMate transmitter & Echo 2-Way controller ONLY** -----

**Automatic Transmitter Verification™** After the ignition is turned on, the system Status Light will flash to indicate the number of transmitters

### Programmable Feature #2

**Last Door Arming:  
Default OFF**

This feature automatically arms the system upon your exiting the vehicle, and is explained in detail on page 6. If desired, having the doors lock when the system automatically arms may added to this feature's operation; that is feature #7. The Last Door Arming feature is independent of the Automatic Rearming Feature.

### Programmable Feature #3

**Automatic Rearming:  
Default OFF**

This feature ensures that your UltiMate-EDP is always armed. It is possible, on occasion, to accidentally and unknowingly disarm the system by having an object press the transmitter button while in a pocket or purse. If this feature is programmed to operate, the system will automatically rearm itself 90 seconds after being disarmed, unless the ignition switch is turned "on" or a door is opened. Also, if feature #8 (Doors Lock With Automatic Rearming) is utilized, the doors will also lock upon the system automatically rearming.

Upon disarming the system, Automatic Rearming is confirmed by a fast flashing Status Light. Once the ignition switch has been turned on, the system will stay in a disarmed condition until it is armed again from the transmitter or by Last Door Arming. After disarming, opening a door will completely cancel Automatic Rearming if Last Door Arming is off, and only temporarily suspend it while the door is open if Last Door Arming is turned on.

### Programmable Feature #4

**Starter Interrupt Circuit:  
Default ON**

This feature controls the starter interrupt circuit. Programming this feature off completely eliminates the starter interrupt output, while leaving all other system operations fully functional.

### Programmable Feature #5

**Automatic Starter Interrupt:  
Default OFF**

Programming this feature "on" will cause the starter interrupt circuit to automatically engage 90 seconds after the ignition switch is turned off, and also 90 seconds after disarming unless the ignition switch is turned on during the 90 second period. This feature will engage the starter interrupt circuit independently of all other system functions, and the engagement of starter interrupt will occur even if the system is in an otherwise disarmed state. Once the starter interrupt output is activated by this feature, the system must be disarmed with the transmitter, or placed into valet mode, to disengage it in order to start the vehicle.

## Programmable Feature #1

### Selectable Coded Override: Default 1 & 0

The Valet Switch is an important part of your UltiMate-EDP system; it is in programming procedures; it places the system into Valet Mode; and it allows an Emergency Override to disarm the system in place of the remote transmitter. Your UltiMate-EDP's advanced design includes this programmable feature, which allows you to configure the Emergency Override operation for the most convenient ease of use, or for higher security.

For a more secure Emergency Override disarming of the system, the vehicle owner may opt for two separate stages of Valet Switch presses, and also choose the number of Valet Switch presses, from 1 to 9 presses, for each of these stages, in order to successfully perform an emergency override.

As an illustration of this feature, with the default setting of "one and no presses", to disarm the system without the transmitter, after entering the vehicle, the ignition switch is turned on, and the Valet Switch is pressed once, at which time the system will instantly disarm. With a custom-programmed Selectable Code Override of, for example, "3 and 9 presses", upon entering the vehicle and turning the ignition on, the Valet Switch must be pressed three times. This causes the audible output (i.e.- horn or siren) to stop sounding after a moment and emit one chirp. The audible output then resumes, and the "stage 2" entry, in this example nine presses must be entered, which achieves an override and disarms the system. However, if either entry is incorrect, the system will not disarm. Another override attempt may be made, but two consecutive incorrect entries will cause the system to ignore any further attempts for two minutes. If a customized Valet Switch entry is desired for the Selectable Code Override, the "stage 2" is required.

To custom program the Selectable Code Override from the default setting, follow the procedure on page 18. In Step 2, the Valet Switch will be pressed once, to select Feature #1. At Step 2, press and release the transmitter's LOCK button a number of times equal to the desired Selectable Code Override for stage 1. The system will respond to each transmitter button press with a horn chirp. After pressing the transmitter button the desired number of times, wait for the system to chirp the horn again the total number of times that the button was pressed. Now press and release the transmitter's UNLOCK button a number of times equal to the desired Selectable Code for stage 2. The system will again chirp the horn in the same fashion as the code entered for stage 1. Now wait for the system to time out programming mode.

Should the system have a forgotten or unknown customized Selectable Override Code already entered, the factory-set default of one press and no press can be obtained by reprogramming this feature per the process just described, except only the LOCK button pressed at stage 1, once, and then the system is allowed to time out of programming mode.

programmed to operate the system. For example: two flashes and a pause indicates that two transmitters are programmed to operate the system. This display is shown for 10 seconds every time the ignition switch is turned on. If the **Unauthorized Transmitter Alert** feature (UTA) is turned on, the number of transmitters Status Light will flash for 90 seconds (and the horn will chirp for two seconds) instead of flashing 10 seconds. The UTA indicators lasts for 48 hours after transmitters or controllers have programmed.

## Optional Sensor devices

Your UltiMate-EDP system allows the addition of an optional sensor to increase the effectiveness of your system when it is armed. Several types of optional sensors are available; typically an impact sensor is a popular addition. With a dual-zone impact sensor, a light shock or impact to the vehicle will produce a **"Prewarn"**, which chirps the horn and locks the doors, without fully activating the system. If a heavier shock or impact is detected, it will fully activate the security system.

### ----- *UltiMate transmitter & Echo 2-Way controller ONLY* -----

If your system does include a sensor, should it be desired the sensor may be temporarily bypassed when arming by pressing the OPTION button within 5 seconds after pressing the LOCK button when you arm the system. If the system is activated by the optional sensor, the Zone Violation feature (page 14) will flash the Status Light four times between pauses; if Prewarn only is activated there is no Zone Violation indication.

## Remote Panic

Your UltiMate-EDP when used with UltiMate transmitters or the Echo 2-way controller features an enhanced remote **Panic** operation. In the event of attack or assault, or any time you feel threatened or in need of assistance, you can use your UltiMate transmitter or Echo controller to activate this feature. This feature operates regardless of the system's status, or regardless of the ignition switch being on or off.

There are three forms of remote Panic operation:

- Pressing and holding the PANIC or "... " button for 3 seconds will activate the Panic feature, sounding the horn, and flashing the lights. Activating it with this button does not affect the doorlocks- the system will only sound the horn and flash the lights. Remote Panic can also be activated by pressing and holding the LOCK or UNLOCK buttons.
- Pressing and holding the LOCK button will also activate the Panic feature, but locking the doors in the process.
- Pressing and holding the UNLOCK button will also activate the Panic feature, but unlocking the doors in the process.

Once remote Panic is activated, after 60 seconds, the system will automatically stop and reset. If you wish to stop the Panic feature during the 60 second period, press either the PANIC / "...", LOCK or UNLOCK button. When doing this:

- Pressing PANIC simply stops Remote Panic, without affecting the system's prior armed or disarmed status, and without affecting the doorlocks.
- Pressing LOCK to stop panic will leave the system armed with locked doors, and pressing UNLOCK will leave the system disarmed with unlocked doors.

With presence of mind, this "enhanced remote Panic" operation can offer some important options in emergency situations. For example, you can flee a secured vehicle with it attracting attention in Panic mode, or you can more easily seek refuge in the vehicle by stopping Panic with the doors unlocking at the same time.

By utilizing programmable feature #28, the PANIC button may be used to operate the Additional Output if desired. The Option Output and Additional Output are described on the next page, and this programmable feature #28 is described on page 27.

#	FEATURE	DEFAULT
1	Selectable Coded Override	1 & 0 (see the Operation Guide)
2	Last Door Arming	OFF
3	Automatic Rearming	OFF
4	Starter Interrupt Circuit	ON
5	Automatic Starter Interrupt	OFF
6	Ignition Activated Override	OFF
7	Doors Lock With Last Door Arming	OFF
8	Doors Lock With Automatic Rearming	OFF
9	Doors Lock With Ignition On	ON
10	Doors Unlock With Ignition Off	ON
11	Open Door Bypass To Ignition Lock / Unlock	ON
12	Confirmation Chirps	ON
13	Confirmation Chirps In Valet Mode	OFF
14	Activated Alarm Cycle	60 Seconds (ON)
15	Lights On Upon Disarm	ON
16	Disarm Alarm Upon Trunk Release	ON
17	<i>Parking Light Override</i> <b>installer feature</b>	OFF
18	<i>Doorlock Pulse Time</i> <b>installer feature</b>	.8 second (ON)
19	<i>Double Unlock Pulse</i> <b>installer feature</b>	OFF
20	<i>Arming Delay</i> <b>installer feature</b>	3 Seconds (ON)
21	<i>Pulsed Horn / Steady Siren</i> <b>installer feature</b>	Horn (ON)
22	Horn Chirp Volume Level	Medium Soft (ON)
23	<i>Total Closure Lock Output</i> <b>installer feature</b>	OFF
24	<i>Alarm Functions Bypass</i> <b>installer feature</b>	OFF
25	Ignition-Activated Anti-Carjacking Protection	OFF
26	Door-Activated Anti-Carjacking Protection	OFF
27	Open Door Warning Upon Arming	OFF
28	PANIC Button Operates "Panic" or Additional Output	Panic (ON)
29	Transmitter-Activated Anti-Carjacking Protection	OFF
30	<i>Doorlocking In Add-on Mode</i> <b>installer feature</b>	OFF

# Programmable Features

The UltiMate-EDP has 30 programmable features. Most of these features have a direct effect upon how the UltiMate-EDP operates, and thus allow the user to customize the system's operation to their preference. Other programmable features are installation related, and are important to the installer rather than the end user; these are indicated on the list and in the descriptions. **Installer-related features should not be changed by the end user!** Installer-related features typically involve configuration differences associated with how the system the system is installed; changing one of these features usually requires changing the installation.

**Before attempting feature programming, familiarize yourself with the programming procedure instructions. Read the individual feature descriptions before programming!**

Programming features is accomplished with the Valet Switch to access programming mode and the specific feature, and then the transmitter is used to change the chosen feature. All transmitter versions can be used- factory keyless entry transmitter, UltiMate transmitter or Echo 2-way controller.

## Features Programming Procedure

- Step 1 -** Turn the vehicle's ignition, then off and within 5 seconds press the Valet Switch 5 times. The system will respond by chirping, then briefly sounding the horn, and the Status Light will flash rapidly.
- Step 2 -** Within 10 seconds access the desired feature by pressing the Valet Switch the same number of times as the feature number. When the feature is selected, the Status Light will change from rapidly flashing the same number as the feature, between pauses.
- Step 3 -** Within 10 seconds change the chosen feature:  
Press the transmitter's LOCK button to turn the feature "on".  
or  
Press the UNLOCK button to turn the feature "off".  
Turning the feature "on" is indicated by one horn chirp; turning the feature "off" is indicated by two horn chirps. Also, turning a feature "on" will cause the Status Light to illuminate steady, while turning the feature "off" will cause the Status Light to go out.
- Step 4 -** Repeat Steps 2 and 3 for each additional feature to be changed.
- Step 5 -** Allow 10 seconds without programming activity (i.e.- not pressing any transmitter buttons or pressing the Valet Switch) to expire, and the system will exit the features programming mode, which is indicated by the horn sounding once.

----- **UltiMate transmitter & Echo 2-Way controller ONLY** -----

## Option Output ("Trunk Release") and Additional Output

Your UltiMate-EDP has two additional outputs, which can offer two additional remote control operational capabilities beyond those already described for basic system operations. The first of these outputs, the **"Option Output"** is most commonly used for remote trunk release (this output is programmable to disarm the system when it is utilized). This output is activated by pressing and holding the transmitter's OPTION button or controller's II button for two seconds, except when the ignition switch is on. However, this output may be operated when the ignition switch is on, provided that the vehicle has a door open. The Option Output is also operable while the system is in Valet Mode.

If the OPTION or "... " button is pressed for 2.5 seconds and then released, the output will be momentary. If the OPTION or "... " button is held depressed, the output will remain for as long as the button is held. The extended output operation is useful for custom applications.

If the Option Output is programmed to also disarm the system, then it will have the 2 horn chirps and two light flashes confirmation when it is operated. If it is programmed to not disarm the system when it is operated, the indication is the two light flashes only. Programmable feature #16 controls whether or not the system is disarmed when the Option Output is used.

----- **Echo 2-Way controller ONLY** -----

If the Echo controller is used to activate the Option Output, it will mimic the 2 horn chirps and show a "2" icon. If the system is programmed to also disarm, the Echo will also show the "disarm" and "unlocked" icons.

The second of these additional outputs is the **Additional Output**, which is activated by simultaneously pressing the transmitter's LOCK and UNLOCK buttons. This output, like the Option Output, can also be activated for extended periods if the two transmitter buttons are held pressed. This output is ideal for an optional remote starting unit. The Additional Output cannot be programmed to disarm the system, nor is there a system indicator for its operation. If desired, the Additional Output can be operated by the PANIC or "... " button instead of the LOCK and UNLOCK buttons; this is a programmable feature #28, which is explained on page 27.

----- **Echo 2-Way controller ONLY** -----

If the Echo controller is used to activate the Additional output it will show a "3" icon. There is no system indicator for the Additional Output.

## UltiMate Transmitter and Echo Controller Programming

The Programming procedure accommodates both 1-way transmitters and 2-way controllers. Important points to remember related to Programming are:

- Up to **four** user transmitters may be programmed into the system. Any combination of UltiMate 1-way transmitters or Echo 2-way controllers may be used to operate the UltiMate-EDP.
- When a transmitter and controller is programmed into the system, all existing remotes will be deleted. That's why it's important to program all transmitters or controllers at the same time.
- The transmitter and controller both have four system-operating buttons. Pressing any of the buttons by itself will program the remote to the system, and there are also two button combinations, which if pressed will program the remote and at the same time will turn on or turn off the Unauthorized Transmitter Alert feature.

### Transmitter and Controller Programming Procedure

**Before starting** have all transmitters present which are to operate the system.

**Step 1 -** Turn the vehicle's ignition on and within 7 seconds press the Valet Switch **5** times. The system will briefly sound the horn at the 5th Valet Switch press.

**Step 2 -** Within 7 seconds press any single transmitter button:  
This will program the transmitter to the system without affecting the UTA feature.

**OR**

Within 7 seconds press either button combination:

Press LOCK **and** UNLOCK buttons **together** to program the transmitter and turn **on** the Unauthorized Transmitter Alert feature.

or

Press OPTION / “..” **and** the red PANIC / “...” buttons **together** to program the transmitter and turn **off** the Unauthorized Transmitter Alert feature.

The system will respond to any transmission by chirping the horn.

**Step 3 -** Repeat Step 2 for each additional remote to be programmed.

**Step 4 -** Turn the ignition switch off or wait 8 seconds for the system to exit the Programming mode.

**About Unauthorized Transmitter Alert (UTA)-** Unauthorized Transmitter Alert is an exclusive, patented feature of the UltiMate-EDP. When the UTA feature is turned on, for 48 hours after transmitters have been programmed to operate the UltiMate-EDP system, every time the ignition switch is turned on the horn will rapidly chirp for two seconds and the system Status Light will flash the number of transmitters between pauses for 90 seconds.

Even when UTA is turned off, the normal operation of the UltiMate-EDP is to show how many operating transmitters are programmed to it by flashing the number via the system Status Light for 10 seconds after the ignition is turned on.

**If the Unauthorized Transmitter Alert feature is on, programming a transmitter or controller to the system will activate the Unauthorized Transmitter Alert warning and the extended Status Light visual display; for the next 48 hours the siren will sound a brief series of chirps every time the vehicle's ignition key is turned on. The following special procedure programs the controllers/transmitters and also turns the Unauthorized Transmitter Alert feature on.**

In the event the system alerts you that transmitter have been added without your knowledge, you should immediately reprogram your own transmitters to the system, which will effectively erase any unauthorized transmitters.

**Special Programming procedure to turn On the UTA feature:** Using this method to program controllers or transmitters, and to turn on or turn off the Unauthorized Transmitter Alert feature.

Follow the same steps as the Standard Programming, but on any controller/transmitter being programmed instead of pressing the LOCK button, press the LOCK and the UNLOCK buttons together. This action turns **on** the Unauthorized Transmitter Alert feature and at the same time programs the controller/transmitter to operate the system.

Once the Unauthorized Transmitter Alert feature is turned on, the warning will sound for 48 hours after any controller or transmitter programming, including the programming session which was used to turn it on.