

Executive Model ONE

UltiMate

***Vehicle Security Alarm System
with
Model ONE Remote Control
Transmitters***

Owner's Guide

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.

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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 while 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 #29 are independently programmable, and any of them may be programmed to operate alone or with the other two features.

#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 when arming the system with the transmitter.

#28 PANIC Button Operates Additional Output: Default OFF. This feature changes the remote transmitter's operation of the panic feature and the additional output. With this feature is used, pressing the transmitter's PANIC button for 2 seconds will operate the additional output. The remote panic feature can still be operated, but changes to pressing the LOCK button for 2 seconds to activate it. Once activated, pressing the LOCK, UNLOCK or PANIC button will deactivate the remote panic feature. Deactivating the remote panic feature is the same regardless of whether the PANIC or LOCK button is programmed to activate it. The remote panic feature's operation is explained on page 12-13.

#29 Transmitter-Activated Anti-Carjacking Protection: Default OFF. This feature will activate the Anti-Carjacking operation (see feature #25) if the transmitter's LOCK and UNLOCK are pressed together for 3 seconds while the ignition is on.

#30 Doorlock Outputs In "Add-on" Mode: Default OFF. This feature is for the installer's benefit, allowing him to better interface the UltiMate with the Omega Vehicle Tracking, Control and Notification system.

press the PANIC button for level 4 (the loudest). This feature is only available for use when the previous feature is programmed for the "Pulsed Horn" setting.

#23 Total Closure Lock Output: Default OFF. If the vehicle has an existing total closure feature, this programmable feature allows the installer the option of interfacing the UltiMate 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.

#24 Alarm Functions Bypass: Default OFF. This feature converts the system into a Remote Keyless Entry System only by eliminating all antitheft alarm-oriented operations and features. When this feature is programmed on, the UltiMate has remote keyless entry operation only.

#25 Ignition-Activated Anti-Carjacking Protection: Default OFF. Your UltiMate offers three separate forms of anti-carjacking protection. When this feature is utilized, you must press the valet switch once within 60 seconds after turning the ignition switch on and starting the vehicle.

If this is not done within this period, the system will begin chirping the horn 53 seconds after the ignition was turned on. These chirps are to warn you 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 starting, the chirping will last for 7 seconds; unless the anti-carjacking feature is cancelled as described, once 60 seconds has passed from the time the ignition was turned on, the horn will start sounding fully, 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.

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

Introduction

Welcome to the convenience and protection offered by your Executive Model ONE UltiMate vehicle security system. UltiMate is 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 the 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. Executive Model ONE systems are designed for professional installation, and are available only through new car retail outlets and selected mobile electronics specialist dealers.

Please note that this guide is written to reflect:

- That a power doorlock interface is installed with your system (the UltiMate also operates your power doorlocks). The type of interface may vary from one vehicle to the other, and in some cases may involve optional components.
- That the vehicle's existing horn is used for the system's audible output; an optional electronic siren is also available.
- That the Programmable Features are in the default settings; the operations of these features are also explained.

Your UltiMate system has three principal user components: the red LED Status Light, the Valet Switch, and the Remote Transmitter.

The Red LED 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. The Valet Switch may also be used, instead of the remote transmitter, to override an armed and activated system. The Valet Switch is also used when programming remote transmitters and system features.

The Remote Transmitter: Each system is capable of being operated by up to four different remote transmitters. The remote transmitter has four push-button switches, each being labeled with an icon as to function. The basic daily use operations are:

Pressing and releasing the **LOCK** button arms the security system and locks the doors.

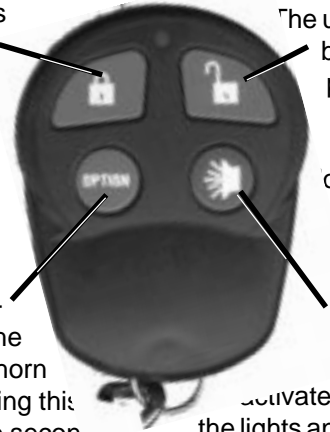
Pressing and releasing the **UNLOCK** button disarms the system and unlocks the doors.

The unlock operation may be configured so that pressing the unlock button once disarms the system and unlocks only the driver's door, and pressing a second time will then lock all of the doors.

Pressing and releasing the **OPTION** button twice arms or disarms the system without the confirmation horn chirps. Pressing this button for two seconds can activate an optional function such as trunk release.

Pressing the **PANIC** button for 3 seconds will activate the system, flashing the lights and sounding the horn; a further press of this button will stop this "panic" operation. If desired, this button can be programmed to operate an additional optional remote function instead of panic.

Transmitter part number: #143-07



Arming the System

"Arming" the UltiMate locks the vehicle's doors and places the security system into a state in which the vehicle is monitored 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" (also called "Last Door Arming"), which can be enabled or disabled.

the previous feature is "on") to confirm disarming; when this feature is off there are still two confirmation chirps, but no light illumination.

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

Certain vehicle's power door locking systems require a longer output pulse to operate properly. This feature allows the installer the flexibility to accommodate such systems. When programming, pressing the remote transmitter's UNLOCK button sets the 3 second pulse, and pressing the LOCK button sets it to .8.

#19 Double Unlock Pulse: Default OFF. This is another power doorlock-related feature provided for the installer's use. Some newer vehicles require a double pulse to remotely unlock the doors and/or to disarm a factory-equipped security system.

#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. Where needed, this feature may be changed to delay the full arming of the system to 45 seconds. Please note when the 45 second arming delay is used, it adds 45 seconds to all three forms of arming: active arming from the transmitter, Last Door Arming, and Automatic Rearming. When programming, pressing the remote transmitter's LOCK button sets the 3 second arming delay, and pressing the UNLOCK button sets the 45 second delay.

#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.

#22 Horn Chirp Level: Default 2. If the system is configured to use the vehicle's horn, this feature allows an adjustment in the confirmation chirp volume. When programming, press the remote transmitter's LOCK button for level 1 (the quietest), press the UNLOCK button for level 2, press the OPTION button for level 3, or

before turning the ignition off, the doors will not automatically unlock.

#13 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. Even if this feature is used to remove the confirmation chirps, the audible Automatic Transmitter Verification feature will still operate as described on pages 16-17.

#14 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.

#15 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.

#16 Lights On Upon Disarm: Default ON. This feature turns on the parking lights (and interior lights with the UltraOne) 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.

#17 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

Active Arming: The UltiMate can always be armed with the remote transmitter, provided the ignition switch is off and the system is not in Valet Mode. Simply press the transmitter LOCK button once. The doors will lock, the parking lights will flash once (the UltraOne package will also flash the interior light once), the vehicle's horn will chirp once, the LED 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.

Silent Arming If desired the system may be armed, provided it is disarmed, without the normal confirmation horn chirp by pressing and releasing the transmitter's OPTION button twice within 3 seconds.

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. When Arming Bypass 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.

Silent Arming and Arming Bypass are operations only associated with Active Arming the system, and not Passive Arming.

Passive Arming with Last Door Arming: The UltiMate 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 programmed to operate, the moment 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.

This arming sequence lasts 30 seconds, and is indicated by a fast-flashing LED 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 LED 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 vehicle is being refueled), you should put the system into Valet Mode or leave the vehicle's door open (in most 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 the Last Door Arming.

A separate programmable feature may be utilized to have the doors automatically lock when the 30 second horn chirp and light flash occurs. 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. 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, and may qualify you for an insurance discount.

The Armed System

When the UltiMate is armed, the LED Status Light flashes continuously in a slow and steady manner. In this state, any violation of a protected entry or optional sensor device will instantly

is turned "on".

#10 Ignition Off Unlock #1: Default ON. This feature automatically unlocks doors instantly when the ignition switch is turned off. Please note that the exact operating parameters of this feature depends upon the installation configuration of the UltiMate system and your vehicle's power door lock system. The system is capable of being configured to unlock only the driver's door upon disarming. Then, if desired, pressing the UNLOCK button again anytime thereafter (unless the system is armed again or the ignition switch is turned on) will unlock all of the doors. Therefore, this programmable feature can operate one of two ways: First, if all of the doors unlock upon disarming the system with the transmitter, this feature will unlock all of the doors when the ignition is turned off. Second, if your vehicle is configured to unlock the driver's door only upon disarming, this feature will unlock only that door upon turning the ignition off.

If not equipped, consult with the installer as to the feasibility of adding the driver's door only unlock configuration to your vehicle, as power door locking systems differ in compatibility to this feature. If the second configuration discussed above is present, the next feature allows the option of unlocking of all of the doors when the ignition is turned off.

#11 Ignition Off Unlock #2: Default ON. As discussed in the previous feature, your security system is capable of a second door unlock output. If your system is configured to unlock only the driver's door upon disarming with the transmitter, this feature may be utilized. This feature, when activated, will unlock all of the doors, after the driver's door, when the ignition switch is turned off.

#12 Open Door Bypass To Previous Three Features: Default ON. This feature only operates in conjunction with the previous three feature's ignition-activated door locking operations. Programming this feature on, along with the any of the previous three features, will cancel any automatic doorlock operations associated with the ignition switch 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

arming, 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.

#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.

#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.

#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, the Selectable Code Override only can disarm the system in place of the transmitter.

#7 Doors Lock With Last Door Arming: Default OFF. This feature adds the locking of the doors to feature #2. When the system automatically arms 30 seconds after the vehicle's last door is closed, the doors will also lock.

#8 Doors Lock With Automatic Rearming: Default OFF. This feature adds the locking of the doors to feature #3. If the system is allowed to automatically rearm 90 seconds after being disarmed from the transmitter, the doors will also lock.

#9 Doors Lock With Ignition: Default ON. This feature automatically locks the vehicle's doors 1.75 seconds after the ignition switch

activate, or "trigger" the system. If the system is activated:

- The vehicle's horn (or the UltraOne package's 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. *The optional electronic siren, used with the UltraOne package, features changing base tones, in addition to a piercing variable overtone; this is the exclusive patented Psycho Siren.*
- The parking lights will flash on and off repeatedly. The UltraOne package will also include flashing the interior lights.
- The doors will relock. If opened, relocking will occur when the door is closed.

The horn will sound and lights will flash for 60 seconds (30 seconds is optional), unless you disarm the system using the remote transmitter by pressing the UNLOCK button. If needed, the Valet Switch and ignition key may be used to disarm the system (Selectable Code Override; pages 10-12). Please note that while the system is activated, pressing the transmitter's UNLOCK button will only disarm the system, and not unlock the doors. In this situation, to then unlock the doors, simply press the UNLOCK button again to unlock the doors. This is **Safety Disarm**.

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 another entry attempt. If there is a protected entry still open, or a sensor still in a violated state at the end of 60 seconds, the system will reactivate for two more 60 second cycles. If this occurs, the system will still stop itself after a total of 3 minutes and 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 it resets itself, the confirmation upon disarming will no longer be the normal two horn chirps, and the lights flashing twice then staying on. Instead, the system will have 4 horn chirps and the lights will flash four times

before staying on. Anytime the system is activated, the LED Status Light will change to flashing two to five times between pauses, indicating which protected zone caused the system to activate. The LED Status Light will continue flashing this **Violation Code** until the ignition key is turned on (see page 13-14 for these Violation Codes).

Disarming the System

Disarming By Transmitter: Press and release the remote transmitter's UNLOCK button once to disarm the system, which also unlocks either all of the doors, or the driver's door only (how the doors unlock is determined by the installation configuration of the doorlock interface). If the UltiMate is configured to unlock only the driver's door, another press of the UNLOCK button will unlock all of the doors. 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 UltraOne package will also illuminate the interior lights in the same fashion). During this 30 second period of illumination, if the ignition switch is turned on the lights will immediately turn off.

If the transmitter is not available or inoperative, the system may also be disarmed by using the Selectable Code Override, which is explained in detail on pages 10-12.

If the UNLOCK button is pressed while the system is activated, it will disarm but not unlock the doors. If the system was activated and reset while you are 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 LED Status Light will indicate which of the protected zones caused the activation by flashing a code of numbered flashes between pauses. This Zone Violation indicator also remains until the ignition switch is turned on.

Silent Disarming The system may be disarmed, provided it

Valet Switch entry is desired for the Selectable Code Override, please note that the "stage 2" is required.

To custom program the Selectable Code Override from the default setting, follow Steps 1 and 2, on page 19. In Step 2, the Valet Switch will be pressed once. At Step 3, 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.

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 instructions on the preceding pages.

#2 Last Door Arming: Default OFF. This feature automatically arms the system upon your exiting the vehicle, and is explained in detail on pages 5-6. If desired, having the doors lock when the system automatically arms may added to this feature's operation. The Last Door Arming feature is independent of the Automatic Rearming Feature.

#3 Automatic Rearming: Default OFF. This feature ensures that your UltiMate 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 #7 (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 LED 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 dis-

Once a particular feature has been configured to the desired setting, the next feature to be programmed may be accessed by repeating Step 2; i.e. press the Valet Switch equal to the number of the next feature. As each is programmed, continue to access each feature to be changed for programming until finished.

If 10 seconds expire without programming activity (i.e. - not pressing the LOCK or UNLOCK buttons or pressing the Valet Switch to select another feature), the system will exit the features programming mode, which is indicated by the horn sounding once.

Description of each programmable feature:

#1 Selectable Code Override: Default 1 & 0. The Valet Switch is an important part of your UltiMate system; it allows an emergency override to disarm the system in place of the remote transmitter, and it is crucial to the programming of transmitters and features. Your UltiMate'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 personally-customized maximum 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 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, 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

is armed, without the normal confirmation chirps by pressing and releasing the transmitter's OPTION button twice within 3 seconds.

The Valet Switch - Valet Mode and Override

The Valet Switch allows the operator to suspend certain functions of the UltiMate'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 transmitter be unavailable or inoperative. These are two separate and distinct operations: the first is **Easy Valet™**, whereby a *disarmed* system may be placed into an "off" condition (Valet Mode) without use of the ignition key; the second operation is **Selectable Code Override**, which will disarm an *armed or activated* system and requires the use of the ignition key. The Valet Switch is also used in transmitter and features programming operations, which are described in later sections of this Owner's Guide.



The Valet Switch is typically contained within the same housing as the LED 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 system!

Easy Valet™: This feature is used to prevent the system from becoming armed, and can be utilized anytime the security system is in the disarmed state. Easy Valet™ is unique because other security systems require the ignition switch to be on to enter Valet Mode, but with the UltiMate, the ignition can be either on or off, so the key is not required. 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 LED Status Light will illuminate and stay on constantly. The system will remain in Valet Mode until it is removed from such (below), regardless of 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 transmitters can still operate the power door locks, panic feature, and the trunk release (if equipped). Valet Mode prevents the system's alarm functions from being armed; using the transmitter to lock the doors will not arm the system, nor will it engage the starter interrupt. When the transmitter is used to lock and unlock the doors when the system is in Valet Mode, there will be light flash confirmations, but no audible chirps unless the system is programmed to do so. In addition to the constantly illuminated LED Status Light, the system will chirp the horn once as a reminder of Valet Mode when the ignition switch is turned off. The doors will lock when the ignition is turned on and unlock when it is turned off, if the system is programmed to do so.

To remove the system from the Valet Mode, simply press and release the Valet Switch. The system will instantly revert to the disarmed condition, as confirmed by the LED Status Light, which will instantly turn off from its previously illuminated steady state. Remember, Easy Valet™ only operates when the system is disarmed - an armed state or fully activated state requires using the Selectable Code Override.

Selectable Code Override: In the event the transmitter is lost, damaged, or it is otherwise inoperable, the Valet Switch and your ignition key must be used to disarm the system. Selectable Code Override offers a high level of security because, in addition to requiring the ignition key, one to 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 stages may be further customized by programming multiple presses of the

This **Features Programming Checklist** will greatly assist in the programming of features. Mark each applicable box with "\" next to the feature to be changed before entering Features Programming Mode. As each feature is programmed, change its mark to "X".

Before attempting feature programming, please carefully read the following programming procedure instructions, and the individual feature descriptions on the following pages to become familiar with the features.

To access the Features Programming Mode, follow these steps:

Step 1 - Within 5 seconds of turning the ignition "off", press and release the Valet Switch 5 times. The system will respond by chirping, then briefly sounding the horn, and the LED Status Light will start rapidly flashing.

Step 2 - Within 10 seconds access the desired feature by pressing the Valet Switch the same number of times that equal to feature number. When the feature is selected, the LED Status Light will change from rapidly flashing to flashing the same number as the feature, between pauses.

For example, to utilize the optional siren, the audible output must be changed from pulsed to steady. This is the twenty-first feature on the list, and therefore to access it, you must press the Valet Switch 21 times. The system will acknowledge the Valet Switch entry by chirping the horn a like number of times equal to the Valet Switch presses; in this case 21 chirps will indicate access to the twenty-first feature.

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 LED Status Light to illuminate steady, while turning the feature "off" will cause the LED Status Light to go out.

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

Valet Switch. This programmable feature, which is explained in detail on pages 20-21, allows you to further enhance the effectiveness of your security system by "hardening" its resistance to being defeated. **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 the following text continues to explain the custom-programmed setting.

How to Disarm the System Without Using the Transmitter

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 Selectable Code 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 Selectable Code Override. See pages 20-21 for further information on the Selectable Code Override.

Once the system is disarmed, if Valet Mode is desired, use the Easy Valet™ procedure to place the system into Valet Mode. 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.

Remote Panic

Your UltiMate system includes a remote **Panic** feature. In the event of attack or assault, or any time you feel threatened or in need of assistance, you can use your remote transmitter 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 button for 3 seconds will activate the Panic feature, sounding the horn, and flashing the lights. Activating it with the PANIC 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

horn. If programming the maximum four transmitters, when the fourth transmitter is acknowledged, the system will also exit the transmitter programming mode.

For 48 hours after transmitters have been programmed to operate the system, every time the ignition switch is turned on, the horn will rapidly chirp for two seconds and the LED Status Light will flash the number of transmitters between pauses for 90 seconds. This is "Unauthorized Transmitter Alert".

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.

Programmable Features

Your UltiMate vehicle security system has thirty programmable features. Many of these programmable features directly affect how the UltiMate operates in daily operations, and thus are important to the user as they allow for a wide range of customizing the system to the user's needs and desires. The other few programmable features are more related to the various installation parameters presented by the wide range of vehicles; and their primary purpose is to the installer, providing him efficient flexibility in properly incorporating the UltiMate system into a specific vehicle application.

As stated at the beginning of this guide, it thus far has described the operations of the UltiMate system with all of the programmable features set for the default settings. Should your system utilize any of the programmable features, the following pages will have important information describing further operations. Following is a list of the programmable features, programming instructions, and then a detailed description of each of the thirty programmable features.

operate your system, and **Unauthorized Transmitter Alert™** (UTA) warns you if transmitters have been recently programmed to operate your system.

Every time the ignition switch is turned on, the LED Status Light shows how many operable transmitters by flashing the number, between pauses. For example: two flashes and a pause indicate that only two transmitters are coded to operate your system. This display occurs for 10 seconds every time the ignition switch is turned on. If transmitters have been programmed within the last 48 hours, every time the ignition is turned on the LED Status Light display extends to 90 seconds, and the horn will rapidly chirp for 2 seconds.

To Program Transmitters, have all of your transmitters present in the vehicle, and follow this procedure:

Step 1 - Turn the vehicle's ignition on. Within 7 seconds press the Valet Switch 5 times. The system will respond by briefly sounding the horn once.

Step 2 - Within 7 seconds press the OPTION button on the first transmitter to programmed. The system will respond with a horn chirp, which confirms that the transmitter has been programmed into the system.

Repeat Step 2 for each transmitter which is to operate the system.

When any transmitter is programmed, even one which already operates the system, all previously known transmitters will be erased from operating your system as a security measure. Therefore, when programming an additional or replacement transmitter into the system, all of the transmitters which are to operate the system must be programmed at the same time.

Turning the ignition switch "off", or 15 seconds of no programming activity, will cause the system to exit the transmitter programming mode, which the system will indicate by briefly sounding the

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 one of the programmable features, the PANIC button may be used to operate the Additional Output if desired. The Option Output and Additional Output are described on page 14-15, and this programmable feature is described on page 27.

The LED Status Light

The LED Status Light indicates several system conditions; these are categorized into three areas: System Status, Automatic Transmitter Verification™ (ATV), and Zone Violation.

System Status: The LED Status Light is 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 LED 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. |

Automatic Transmitter Verification™: After the ignition is turned on, the LED Status Light will flash to indicate the number of transmitters 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. More importantly, for 48 hours after any transmitter programming has occurred, the horn will

chirp for two seconds and the LED status light will flash for 90 seconds. This exclusive Unauthorized Transmitter Alert protects your system from unauthorized transmitters being added to it.

Zone Violation: If the system is activated, the LED status light will start to flash and pause the following coded sequences to indicate which protected circuit caused the activation. This will be seen at all times, until the ignition switch is turned "on", which will clear the system's memory. The unit'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.

Option Output ("Trunk Release") and Additional Output

Your UltiMate system has two additional outputs, which can offer two additional remote control operations beyond those already described. 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 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 button is pressed for 2.5 seconds and then released, the output will be momentary. If the OPTION button is held depressed, the output will remain for as long as the button is held, until the transmitter's battery saver feature engages. The extended output operation is useful for custom applications.

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. If desired, the Additional Output can be operated by the PANIC button instead of the LOCK and UNLOCK buttons; this is a programmable feature, which is explained on page 27.

The Optional Shock Sensor with Prewarn

Your UltiMate system allows the addition of an optional shock sensor to increase the effectiveness of your system when it is armed. 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.

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 LED Status Light four times between pauses; if Prewarn only is activated there is no Zone Violation indication.

Programming Remote Transmitters

Your UltiMate system can be operated by up to four different remote transmitters. Each technologically advanced transmitter has a unique, changing digital code, and therefore each transmitter must be programmed to your system in order for it to be recognized. Programming additional remote transmitters is relatively simple procedure, and your UltiMate system features the industry's most secure transmitter programming protection. **Automatic Transmitter Verification™** (ATV) shows you how many transmitters can