



"WE'VE GOT THE EDGE ON SECURITY"

OWNER'S MANUAL

MODEL: AL-1000^{SH}

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Note: *This manual is written under the assumption that an optional door lock interface and an auxiliary sensor are installed with your Excalibur vehicle security system.*

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Introduction

Congratulations on your purchase of your new Excalibur security system and on joining over 8 million people worldwide who have trusted their vehicle's security to the designers of Omega Research & Development, Inc. To learn how to operate your security system, please become familiar with the following three principal user components: the Remote Transmitter, the Red LED Status Indicator and the Easy Valet Switch.

The Remote Transmitter: Each security system comes with two pre-learned transmitters, but can learn up to 4 different transmitters. The transmitter has three buttons: one large button in the middle and two smaller buttons. This system is pre-programmed, through a built-in learning routine, to have the transmitter buttons work in the following configuration:

The large button is used to arm, disarm and panic the security system.

The small left button is used, in conjunction with the large button, to operate remote sensor bypass, remote chirp elimination and remote valet. Used alone it operates the channel #3 output.

The small right button can be used to operate the trunk release feature.

This advanced transmitter design, featuring Surface Acoustical Wave Technology offers almost twice as much range as conventional systems. This helps overcome problems encountered in urban areas due to excessive amounts of interference.

The Easy Valet Switch: This switch prevents the security system from arming during extended stopovers at service stations, valet parking, car washes, etc. The Valet Switch is also used to temporarily override and disarm your security system in the event you lose your transmitter and to initiate the transmitter code learning process.

The Red LED Status Indicator: Informs you of 12 possible conditions the security system can be in and also serves as a visual deterrent to break-ins and theft.

Advanced System Features

Automatic Transmitter Verification™ (Patent Pending): Your Excalibur vehicle security system is protected against a weakness shared by all other systems, even factory-equipped Remote Keyless Entry systems: a thief's ability to code his own, unauthorized transmitter to operate your system for the purpose of stealing your vehicle or its contents. **Note: For the first 8 hours after your new system is installed, every time the ignition switch is turned "on", the siren will chirp rapidly for two seconds. This will also occur in the event of a new transmitter code being entered into the system.** Also, every time the ignition switch is turned "on", the LED Status Indicator will flash and pause for ten seconds, the number of flashes between each pause being equal to, and confirming, the number of transmitters encoded to operate your system. For example: two flashes and a pause indicate that only two

transmitters are coded to operate your system. In the event the system alerts you to a recent transmitter addition, or if the LED Status Indicator flashes a total different from the number of transmitters you have programmed to operate your system, you can now immediately reprogram your transmitters, effectively erasing any unauthorized transmitters.

The patent-pending Automatic Transmitter Verification™ feature is the industry's first response addressing the growing problem of a professional thief defeating a vehicle security system by coding his own transmitter to operate the system. Previously, garage door openers were duplicated by burglars to gain home entry. Now when you leave your vehicle and keys with any individual for any reason, you will have the peace of mind of knowing that only your transmitters will operate the security system and that no other person has coded extra transmitters to steal your vehicle.

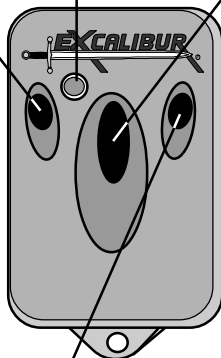
Transmitter Code Jumping™: Each time you transmit a code to the security system, the transmitter and security system will advance to another code to use for the transmission. The Code Jumping™ Transmitter prevents a thief from using a "code grabber" device to record and play back a transmission for the purpose of disarming your vehicle security system. Please note that pressing the transmitter's arm / disarm button many times while it is out of range of the security system can advance its codes beyond the range of recognition. If this occurs, simply press the arm / disarm button a few times to synchronize the Code Jumping™ sequence between the transmitter and the security system control module.

Transmitter Operations

Small Left Transmitter Button-

If this button is pressed and then the large button is pressed within 3 seconds, the security system will arm or disarm without siren confirmation chirps. If this button is pressed within 3 seconds after arming the system, Auxiliary sensor #1 will be turned off and Auxiliary sensor #2 will only have an instant trigger. If this button is pressed within 3 seconds after disarming, the system will enter Remote Valet. Pressing the small left transmitter button may be used to activate other optional modules through the 3rd channel output (Example: car starting equipment or power window roll up units).

Green LED Light- Illuminates and confirms transmission whenever a button is pressed.



Small Right Transmitter Button-

If this button is pressed and held for 3 seconds, the security system will activate the trunk release function.

Large Transmitter Button-

Pressing and releasing this button will arm and disarm the security system. If the optional doorlock interface is installed, the doors will lock upon arming, and unlock upon disarming. If you have the optional unlock driver's door feature, then upon disarming only the driver's door will unlock, and if the large button is pressed again within 5 seconds, all of the doors will unlock. Pressing and holding this button for 3 seconds will "Panic" the system, which will sound the siren, flash the exterior and interior lights and also lock the doors.

Arming The System Using The Transmitter

Arming The Security System Using The Transmitter: The security system can always be armed from the transmitter provided the ignition key is “off”, and the system is disarmed and not in the Valet Mode. To arm the system, after you exit the vehicle and close all of the doors, simply press and release the large transmitter button once, Instantly the exterior and interior lights will flash once, the siren will chirp once and the LED Status Indicator will begin to flash confirming that the system is armed. Further, the doors will lock and the starter interrupt relay will prevent any attempt to start the vehicle. Your security system is now fully armed, and is ready to respond if an intrusion attempt is detected.

Arming By-Pass: Upon arming, if any sensor circuit is inoperable, that circuit will be bypassed. For example, if the trunk is left open, you can still arm the system normally from the transmitter. The bypassed circuit will automatically be reinstated for protection 5 seconds after that circuit becomes operative, i.e., the trunk is closed. When a triggered circuit is in a bypassed state, all other operating circuits will be protected normally.

Sensor By-Pass: Your Excalibur system provides you with the convenient option of temporarily deactivating the auxiliary sensor (see page 20) without affecting any other trigger circuit. To deactivate the auxiliary sensor, simply press and release

the small left transmitter button within 3 seconds after pressing the large transmitter button when arming the system. You will hear a second siren chirp, confirming the security system has armed without the sensor circuit protecting the vehicle. The next time you arm the security system, the system will reset to its normal condition, and the optional sensor will again be part of your protection.

You can also pre-select your security system to automatically arm and lock the doors. This information is described in the following section.

Passive System Arming By "Last Door Arming"

Your security system can be programmed to arm automatically when the vehicle's last door is closed. The moment the last door closes, the siren will chirp once, the parking lights and dome lights will flash once and the LED Status Indicator will begin to flash rapidly. Thirty seconds later the siren will chirp again, the doors will lock (If the Passive Lock feature has been chosen) and the LED Status Indicator will slow to a steady flash, confirming that the security system is fully armed. However, if a point of entry is reopened before the single chirp at 30 seconds, the passive arming process stops, and will reset to start over again when that point of entry is reclosed.

"Automatic Last Door Arming" offers a high level of security, since it does not require you to remember to activate the security system when you leave your vehicle. Additionally, Automatic Last Door Arming may entitle you to an insurance discount. **Note:** Arming By-Pass (page 7) does not operate with the Automatic Last Door Arming feature. This bypass feature is designed to work only when arming from the

transmitter, because all protected entries must be closed prior to the Automatic Last Door Arming sequence to start. **Note:** To prevent the system from automatically arming while the vehicle is being refueled you should put the system in Valet Mode (page 14), keep your door open or turn on your dome light switch so that the system thinks your door is still open. We do not recommend leaving your ignition key turned "on". **Note:** Passive last door arming does not effect the operation of active arming.

Security System Armed And Triggered

While the security system is armed, the LED Status Indicator will be flashing. Should any intrusion attempt occur, your system will instantly "trigger". Once triggered, the security system will respond by:

- 1) The electronic siren will be activated. Once activated, it will change siren sounds every 5 seconds to attract more attention to the vehicle.
- 2) The exterior and interior lights will flash.
- 3) The doors will relock. This feature is so unique that the security system even knows when a door is open and, if so, the system waits until the door is closed, at which time it relocks the doors, so that the thief cannot easily regain entry.

The siren and lights will stay activated for 60 seconds, unless you disarm your system with the transmitter or place the system in Valet Mode. If all protected entries are secure at the end of 60 seconds, the system will rearm automatically to protect against another entry attempt. However, if there is a protected entry still open or a

sensor still in a triggered state at the end of the 60 seconds, the system will retrigger for two more 60 second cycles. Should this occur the system will stop after a total of 3 minutes, while ignoring only the open entry or triggered circuit. Should the entry be closed, protection will begin instantly for that circuit.

After the security system has been triggered, after it resets the disarm confirmation will no longer be 2 chirps and the exterior and interior lights coming on immediately and staying on for 30 seconds. Instead, the system will respond by producing 4 siren chirps and flashing the lights 4 times before the lights stay on for 30 seconds. Also, the LED Status Indicator will indicate which zone activated the system. This is accomplished by the status indicator flashing one to four times between pauses, as defined on page 15, until the ignition key is turned "on".

Disarming The System Using The Transmitter

Disarming The System From The Transmitter: While the security system is in the armed state, pressing and releasing the large transmitter button once will instantly disarm the system and unlock the doors. If you have the optional unlock driver's door feature, then upon disarming only the driver's door will unlock, and if the large transmitter button is pressed again within 5 seconds or while a door is open, all of the doors will unlock.

Disarming is confirmed by two siren chirps and the exterior and interior lights

turning on for 30 seconds, except under the following conditions: 1) the lights will turn off 10 seconds after a door has been opened, or 2) the lights will turn off instantly if the ignition switch is turned "on". **Note:** If the system was triggered and reset while you are away, the disarm confirmation will change to 4 siren chirps, 4 light flashes, and then the lights will stay on for 30 seconds, to illuminate the way to your vehicle. The security system will have this response upon disarming until the ignition switch is turned "on", which clears the unit's memory. **Note:** Anytime the security system triggers, the LED Status Light will indicate which zone triggered the system by flashing one to four times, pausing between flashes. This code will continue to flash, even after disarming. The system can hold two different violation codes in it's memory, which is cleared by turning the ignition switch "on".

Your Excalibur vehicle security system offers a very high level of personal safety and convenience with the advanced features utilized upon disarming. The ability to unlock the driver's door only prevents a potential attacker from gaining entry into your vehicle from the other doors, you'll know instantly if your system was triggered while you were away, and the exterior and interior light illumination allows you a lighted approach to your vehicle with the ability to examine the interior before entry. If you wish, your dealer can program the system to turn on the exterior and interior lights for sixty instead of thirty seconds upon disarming.

Automatic Rearming Feature: Should you unknowingly activate your transmitter, which results in your system disarming, your Excalibur system will automatically

Continued Next Page

rearm itself after 90 seconds and once again lock the doors. This feature is programmable and in some cases may be turned off. See your Excalibur dealer or installer for details. **Note:** Automatic Rearming can be paused by opening the door or stopped by turning "on" the ignition key. **Note:** Automatic Rearming is confirmed by a fast flashing LED Status Indicator after disarming, unless the system was triggered and reset, in which case a Zone Violation code will flash instead.

Remote Valet Activation: Remote Valet allows you to prevent your Excalibur system from automatically rearming by utilizing your transmitter. Within 3 seconds of hearing the disarm siren chirps, press and release the small transmitter button on the left, which will activate the Remote Valet. Once the system has entered Remote Valet mode, the exterior lights will flash every 2 seconds during the 30 second period instead of the lights staying on. The system will stay in Remote Valet mode until armed again from the transmitter or, if Automatic Last Door arming is utilized, until a door is opened and closed.

Remote Panic Feature

Remote Panic Activation From The Transmitter: Should you feel threatened or the need to attract attention at any time you can activate your Excalibur's Remote Panic feature by depressing the large transmitter button for 3 seconds. Your system will respond by activating the siren, locking the doors and

flashing the exterior and interior lights for 60 seconds. Should wish to enter your vehicle or disengage Remote Panic, simply press and release the large transmitter button.

Optional Trunk Release And 3rd Channel Output

Optional Trunk Release: If your vehicle is equipped with *electric* trunk release, your authorized Excalibur dealer can configure your system to accomplish trunk release from your transmitter. To operate this option when equipped, simply press and hold the small transmitter button on the right for 3 seconds. Your vehicle will respond by releasing the trunk lid, chirping the siren twice, disarming the system and turning on your exterior and interior lights for 30 seconds. **Note:** The trunk release output will not operate with the ignition switch "on" unless the vehicle's door is open.

If desired, your Excalibur dealer can program the security system to remain armed when this feature is used.

Optional 3rd Channel Output: This output's operation is the same as the trunk release output except for the following items: Press the small transmitter button on the left for 3 seconds to activate the 3rd channel output. The 3rd channel output will operate regardless of the ignition switch being "on" or "off", and there is no chirp confirmation. This output can be used to operate optional equipment such as remote car starters or window roll-up modules.

Using The EasyValetTM Switch

The primary function of the Easy Valet Switch is to enter your security system into Valet Mode, which prevents the system from arming. You will find this useful when stopping at service stations, having your vehicle serviced, having your car valet parked or while having your car washed. The Easy Valet Switch, in conjunction with the ignition key, can be used to disarm the system should your transmitter be lost or become inoperable. The Easy Valet Switch is normally mounted in a hidden location that is accessible to the driver. Be sure your Excalibur dealer indicates the location of the Easy Valet Switch to you to avoid potential inconvenience otherwise.

To Turn On The Easy Valet: This unique feature can be activated anytime the system is disarmed. This patent-pending feature allows you to enter the Valet Mode by simply depressing the Easy Valet switch, provided the system is not armed. However, if the system is armed or in the triggered state, the ignition needs to be turned "on" and then the Easy Valet Switch pressed within 5 seconds to disarm the system by entering Valet Mode.

Simply press and hold the Easy Valet Switch for 2 seconds to activate the Valet Mode. The system will confirm that it is in the Valet Mode by chirping the siren twice, and the LED Status Indicator will illuminate. The security system will hold memory of the Valet Mode when the ignition switch is "on" or "off". While in the Valet Mode, although the system will not arm, the transmitters will still operate the Remote Panic

feature, the doorlocks, and trunk release; the doors will also lock when the ignition switch is turned "on" and unlock when it is turned "off". **Note:** While the security system is in the Valet Mode, every time the ignition switch is turned "off", the siren will chirp once as a reminder.

To Turn Off The Easy Valet: Simply press the Easy Valet Switch, and instantly the security system will exit out of Valet Mode. To confirm that the Valet Mode is turned off, the LED Status Indicator will turn off.

Disarming The Security System If The Transmitter Is Lost: In the event the transmitter is lost, damaged, or its batteries become exhausted, the Easy Valet Switch and your ignition key can be used to disarm the system:

- STEP 1. With the system in the armed condition, enter via the driver's door (be aware that the security system will trigger the instant the door is opened).
- STEP 2. Use the ignition key to turn "on" the ignition switch.
- STEP 3. Within 5 seconds, press the Easy Valet Switch. The security system will instantly disarm.

Red LED Status Indicator

The LED Status Indicator feature 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 12 possible conditions that the security system can be in, and are reflected by the LED Status Indicator:

- 1) Off = The security system is disarmed and not performing any automatic functions.
- 2) On Constant = The security system is in the Valet Mode.
- 3) Flashing Slow = The security system is Fully Armed.
- 4) Flashing Fast = The 30 second Last Door Arming feature or 90 second Automatic Rearming feature is in progress.

Automatic Transmitter Verification™ (Patent Pending): After the ignition is turned "on", the LED Status Indicator will flash to indicate the number of transmitters programmed to operate your security system. For example: two flashes and pause indicates that only two transmitters are coded to operate your system. Whenever you leave your vehicle and keys with someone, you will now have the peace of mind of knowing that only your transmitters will operate the security system and that no additional transmitters have been coded into your system for the purpose of stealing your vehicle. This feature works for 10 seconds every time the ignition switch is turned "on".

- 5) Flash-1x & Pause = 1 transmitter code is stored in the system's memory.
- 6) Flash-2x & Pause = 2 transmitter codes are stored in the system's memory.
- 7) Flash-3x & Pause = 3 transmitter codes are stored in the system's memory.
- 8) Flash-4x & Pause = 4 transmitter codes are stored in the system's memory.

Zone Violation: If the system is triggered, the LED Status Indicator will start to flash and pause the #9 through #12 sequences to indicate which protected circuit triggered the system. This is seen while the system is armed, and after disarming, until the ignition switch is turned "on", which will clear the Zone Violation code from the security system's memory. The unit' memory can store two different violation codes.

- 9) Flash-1x & Pause = The security system was triggered from the current sensing circuit.
- 10) Flash-2x & Pause = The security system was triggered from the hood, trunk or #2 Auxiliary Port circuit.
- 11) Flash-3x & Pause = The security system was triggered from the door circuit .
- 12) Flash-4x & Pause = The security system was triggered from the #3 Auxiliary Sensor Port circuit.

Electronic Siren And Flashing Lights

The electronic siren and the vehicle's exterior lights primary function is to attract attention to your vehicle if the security system is triggered. In addition, they are also used to communicate with you, as a way of confirming actions that have taken place, or, that may be in process of automatically taking place. A chirp is the short, sharp sound the siren makes as part of this communication. The exterior lights referred to are the vehicle's parking lights. We do not recommend flashing the headlights. The halogen headlights found in modern vehicles are not designed to be rapidly turned on

and off. If connected to the security system, a reduction of their useful life may be noticed.

Siren Chirp With Light Flash Confirmation For Arming, Disarming & Valet

Activation: The following siren chirps and flashing exterior light actions inform you of these conditions of the security system:

- 1) One siren chirp and one light flash: *The system has armed.*
- 2) One siren chirp after the arming chirp above: *The optional sensor circuit is bypassed.*
- 3) Two siren chirps (and no lights): *Trunk release has been activated while the security system is in Valet Mode.*
- 4) Two siren chirps and lights stay on for 30 seconds: *The system has just disarmed.*
Note: *Activating the Trunk Release feature will also disarm the security system.*
- 5) Two siren chirps & two light flashes: *The system is entering the Valet Mode.*
- 6) Three siren chirps and three light flashes: *The system is arming with a protected circuit still open or an optional sensor in a triggered state, and these circuits will be bypassed.*
- 7) Four siren chirps & four light flashes, then the lights stay on 30 or 60 seconds: *The security system has just disarmed and was triggered and reset while you were away.*
- 8) Lights start flashing every 2 seconds during the 60 second disarming confirmation: *The system has entered the Remote Valet condition.*

- 9) Siren sounding, changing sounds every 5 seconds, and lights flashing on and off:
The system is in a triggered state.
- 10) One siren chirp (and no lights) when the ignition switch is turned "off": *The security system is in Valet Mode.*
- 11) Three siren chirps (and no lights) while the security system is armed: *The Prewarn feature has been activated.*
- 12) A series of siren chirps lasting two seconds when the ignition switch is turned "on":
The Automatic Transmitter Verification™ feature has been activated.
- The siren is also used to communicate portions of the transmitter code learning, which is explained in detail on page 22 and programmable features processes.

Backup Battery

This security system includes a 9 volt alkaline battery and a slide bracket holder which attaches to the security system control module. The 9 volt battery is all that is required to provide alternative power to operate the system if the vehicle's battery is disconnected. A built-in protection circuit will not allow the 9 volt battery to back feed voltage into the vehicle's electrical system.

While on backup battery power, to conserve the backup battery, the system will not have some functions - flashing exterior lights and the LED Status Indicator. The siren will still have full sound output, and all trigger circuits will be active except current sensing and any optional sensors. The Starter Interrupt, however, will work at all times from battery backup. Replacement 9 volt alkaline batteries can be purchased

anywhere batteries are sold. We recommend the battery be replaced with another alkaline battery every 18 months or after the 9 volt battery has operated the alarm on its own for any length of time. Under the following conditions, a new 9 volt alkaline battery's life is anticipated to be approximately:

1. 2 days as the only power source to the system while in the armed condition.
2. 25 triggered cycles. A triggered cycle is the 60 second period after the security system is triggered, in which the siren is sounding. The cycle ends when the system automatically resets to the armed state.
3. 50 separate transmitter arm and disarm activations.
4. 18 months if the 9 volt battery circuit has not been activated.

You may want to ask the installing dealer if this is a service that they provide, and if there will be any charge for this service. If you plan on replacing the 9 volt battery yourself, be sure to have the installer show you how to access the security system's control unit.

Shock Sensor With Prewarn Feature

Your Excalibur security system features two ports which allows an auxiliary sensor to easily be added to increase the effectiveness of your system. Your system includes a Dual Zone Air Resonance shock sensor, which will detect shock or impact to your vehicle. A light shock or impact to the vehicle will initiate the Prewarn feature, while heavier shock or impact will trigger the security system. Other sensors are

available which include those that monitor shock to the vehicle, detect changes in atmospheric pressure within the vehicle, and radar sensors that can detect motion inside and outside the vehicle. The sensor may be temporarily bypassed using the transmitter, which is described on page 7.

The following differences in operation of the two auxiliary sensor ports concerning the sensor bypass feature should be noted: Port #1, which is on the corner of the security system control module, will have both the negative instant trigger and the prewarn trigger bypassed when this feature is utilized. Port #2, just inboard of Port #1, will have only the prewarn trigger and not the negative instant trigger bypassed. This allows the option, when installing a single sensor, of having both prewarn and instant triggers bypassed (Port #1) or just the prewarn trigger bypassed (Port #2). When using two sensors, the most sensitive of the two sensors will generally be plugged into Port #1. An example of this flexibility would be a sensitive shock sensor plugged into Port #1 and a radar sensor plugged into Port #2. When the remote sensor bypass feature is used, the shock sensor will be completely bypassed and the exterior zone of the radar sensor will also be bypassed. This leaves only the interior zone of the radar sensor intact, reducing a possible false alarm caused by parking in an area of heavy traffic or other vibrations, while leaving the radar sensor's interior zone as part of the security systems protection. The dual auxiliary ports' operation allow extreme flexibility in designing a custom security system.

If the system is triggered by the sensor plugged into Port #1 the Zone Violation feature will flash the LED Status Light four times between pauses. If the system is

triggered by a sensor plugged into Port #2 the Zone Violation feature will flash the LED Status Light twice between pauses.

Prewarning Shock Detection Circuit: This circuit requires connection to an auxiliary detection sensor device. When the sensor is triggered by a light impact or shock to the vehicle, the security system will respond by chirping the siren 3 times and locking all of the doors. After this circuit has been triggered 5 times it will automatically shutdown until the alarm system is rearmed again. This will prevent the security system from being a nuisance to the general public.

Programming Transmitters

When adding or deleting transmitter codes to operate the security system, follow this process:

- 1) Turn "on" the ignition.
- 2) Within 5 seconds of turning "on" the ignition, press the Easy Valet™ switch 5 times. The siren will chirp, confirming that for the next 10 seconds the system is ready to learn a transmitter code. When the first transmitter code is learned all existing stored codes will be erased. To enter a transmitter code, simply press and release the transmitter button which is desired to arm and disarm the system.

- 3) Repeat this procedure for each transmitter desired to operate the security system. The system will chirp once to confirm that each transmitter code was learned. Both of the other two transmitter button's functions will automatically be learned when the arm / disarm button is learned. If a code is not received within a 10 second period, the learning process will automatically terminate.

Any one of the transmitter's three buttons may be programmed to arm and disarm the security system. Upon the system learning the arm / disarm button, the other two buttons are automatically assigned other functions, as follows:

Arm / Disarm	Trunk Release	3rd Channel
Large Center Button	Small Right Button	Small Left Button
Small Right Button	Large Center Button	Small Left Button
Small Left Button	Large Center Button	Small Right Button

This security system is programmed at the factory for the large center transmitter button to arm and disarm the system. The three transmitter buttons also perform other functions, which is explained in more detail on Page 6.

Programmable Features

Your vehicle security system has 18 programmable features that allow your system to be customized to fit your personal needs. To program these features "on" or "off", follow this process:

- 1) Turn "off" the ignition.
- 2) Within 5 seconds of turning "off" the ignition, press the Easy Valet™ switch 5 times. The siren will chirp, followed by a short burst, confirming that for the next 10 seconds the system is ready to receive a feature number.
- 3) Press the Easy Valet™ Switch the number of times that is equal to the feature number. Example: Press the Easy Valet™ Switch six times if Feature #6 is to be changed.
- 4) The siren will respond by chirping the same amount as the feature number. Example: The siren responds with six chirps.
- 5) Press the large transmitter button to turn the feature "on". When done, the siren will respond with one chirp.
- 6) Press the small left transmitter button to turn the feature "off". When done, the siren will respond with two chirps.

If the Easy Valet™ Switch is not pressed or if a transmitter signal is not received within a 10 second period, the Programmable Features learning process will automatically terminate. The 18 Programmable Features are:

Feature #1: Anti-Carjacking Protection. (Factory Setting: OFF)

Feature Turned On: After turning the ignition switch "on" and starting the vehicle, you must press the Easy Valet™ switch within 60 seconds. If the valet switch is not pressed the security system will begin chirping 53 seconds after the ignition was turned "on". These chirps are to remind you that the Anti-Carjack is about to engage; pressing the valet switch during the chirps will stop the Anti-Carjack feature. The chirps will last for 7 seconds, after which time the siren will fully engage and the parking lights will begin flashing to attract attention to the vehicle. 30 seconds after the siren and parking lights engage, or, any time the ignition is turned "off" the starter interrupt will engage. Once the Anti-Carjack is engaged, the only way to disengage it is to turn the ignition "off", then back "on" again, and then press the valet switch within 5 seconds.

Feature #2: Opening Door Anti-Carjack Protection. (Factory Setting: OFF)

Feature Turned On: This feature adds further protection to the Anti-Carjacking feature described above. The Easy Valet™ Switch must still be pressed within 60 seconds to cancel the Anti-Carjacking feature when the ignition switch is turned "on". While the ignition switch is "on", if a door is opened, then closed, the Opening Door Anti-Carjack feature will initiate the 60 second Anti-Carjacking cycle described previously.

Feature #3: Automatic Last Door Arming.**(Factory Setting: ON)**

Feature Turned On: The security system will arm itself automatically when the vehicle's last door is closed. At the moment the last door is closed the siren will chirp, the exterior lights will flash once, and the Status LED will flash fast. Thirty seconds later the siren will chirp once again, the lights will flash, and the Status LED will flash slow, indicating that the security system is fully armed. If feature #4 is selected, the doors will also lock at this time. If the negative instant trigger is grounded at any time during the thirty second countdown (Example: opening the trunk), the Automatic Last Door Arming feature will be interrupted. When the negative instant trigger becomes ungrounded, the security system will become fully armed thirty seconds later. **Note:** All of the doors and the trunk must have the proper connection of the control module's wiring. This feature allows unhurried passenger exit and trunk access, as the Last Door Arming process does not start until the last door or trunk is closed, and opening any door or the trunk will interrupt the process. You can still, of course, actively arm the security system with the transmitter at any time.

Feature #4 Doors Will Also Lock With Last Door Arming: (Factory Setting: ON)

Feature Turned On: When the security system passively arms from the Last Door Arming feature, the doors will also lock if an optional doorlock interface was added. This will occur when the system becomes fully armed 30 seconds after closing the last door.

Feature #5: Current Sensing.

(Factory Setting: ON)

Feature Turned On: When the security system is armed, current sensing can detect a positive current draw from the vehicle's battery. (Example: the dome light comes on when a door is opened or the brake lights come on when the brake pedal is pressed). With this feature on, the security system will trigger if a current draw is detected.

Feature #6: The Doors Will Lock At Ignition "On".

(Factory Setting ON)

Feature Turned On: The security system will automatically lock the vehicle's doors one second after the ignition switch is turned "on". This feature adds considerable personal security to you and your family.

Feature #7: The Doors Will Unlock At Ignition "Off".

(Factory Setting ON)

Feature Turned On: The security system will automatically unlock the vehicle's doors the instant the ignition switch is turned "off".

Feature #8: Adding Open Door Bypass To #6 & #7.

(Factory Setting ON)

Feature Turned On: When the security system locks and unlocks the doors from Features #6 and #7, if a door is open the doors will not automatically lock when the ignition switch turns "on", or automatically unlock when the ignition switch is turned "off".

**Feature #9: Lights Stay On 30 Or 60 Seconds Upon Disarming:
(Factory Setting OFF)**

Feature Turned On: Upon disarming, the exterior (and interior if connected) lights will stay on for 60 seconds, illuminating the way to your vehicle.

Feature Turned Off: The exterior (and interior if connected) lights will stay on for 30 seconds when the system is disarmed.

**Feature #10: System Will Automatically Rearm 90 Seconds After Disarming:
(Factory Setting ON)**

Note: If Feature #3, Automatic Last Door Arming, is turned off, the security system can only become armed by using the transmitter (active arming). If configured for active arming only, the 90 second automatic rearming feature may programmed not to operate.

Feature Turned On: When the transmitter has disarmed the security system, the system will rearm the and lock the doors 90 seconds later, unless a door is opened or the ignition is turned on. This feature prevents the system from being accidentally disarmed if a transmitter button is unknowingly pressed by an object while in a pocket or purse, or from children playing with the transmitter. **Note:** When Automatic Last Door Arming (Feature #3) is utilized this feature will operate automatically.

Feature Turned Off: When the transmitter has disarmed the security system, the system will stay disarmed until the transmitter is used to arm it again.

Feature #11: The Security System Will Also Disarm Upon Trunk Release:
(Factory Setting ON)

Feature Turned On: When the trunk release feature is utilized, the security system will also disarm at the same time, chirping the siren twice, unlocking the doors and turning the exterior lights on for thirty or sixty seconds. Most other vehicle alarms force you to disarm first and then release the trunk to avoid triggering the alarm.

Feature #12: .8 Or 3 Second Doorlock Pulse Time: **(Factory Setting ON)**

Feature Turned On: The doorlock outputs have a .8 second negative pulse to an optional doorlock interface to operate the vehicle's power doorlocking system.

Feature Turned Off: The doorlock outputs have a 3 second negative pulse to an optional doorlock interface to operate the vehicle's vacuum doorlocking system.

Feature #13: Double Door Unlock Pulse: **(Factory Setting OFF)**

Some newer vehicles require a doorlock interface which provides a double doorlock output pulse to unlock all of the vehicle's doors. Feature #12 must be turned on (.8 second doorlock pulse time) for this feature to operate.

Feature Turned On: The unlock output provides two pulses.

Feature Turned On: The unlock output provides two pulses.

Feature #14: 3 Or 45 Second Fully Armed Delay: (Factory Setting ON)

Feature Turned On: The security system will become fully armed 3 seconds after the arming siren chirp confirmation.

Feature Turned Off: The security system will become fully armed 45 seconds after the arming siren chirp confirmation.

Note: During the arming delay if any protected circuit should go into a triggered state, the system will arm, but that circuit will be unprotected until it reverts back to a non-triggered state.

Feature #15: Confirmation Chirp On Or Off: (Factory Setting ON)

Feature Turned On: The security system will chirp the siren for confirmation that the system armed and disarmed.

Feature Turned "Off": The security system will not have siren chirps for the arming and disarming confirmation. **Note:** Turning this feature off will also eliminate the three chirps upon arming if the negative instant trigger circuit is grounded, and the four chirps upon disarming if the system was triggered and reset. However, the Prewarn Feature and the Programmable Features chirps will still operate.

Feature #16: 8 Hour Audible ATV On Or Off: (Factory Setting ON)

Feature Turned On: The security system will chirp the siren for 3 seconds after the ignition switch is turned "on" to alert you that the system has had transmitter programming activity. After eight hours this chirping will automatically cease.

Feature Turned "Off": The security system will not have the audible indicator, in the form of siren chirps, indicating transmitter programming activity. However, the visual indication remains in the form of the LED Status Indicator, which will still flash the number of active transmitter codes for 10 seconds after the ignition is turned "on".

Feature #17: Siren Sounds 30 Or 60 Seconds: (Factory Setting ON)

Feature Turned On: Upon activation, the siren will sound for 60 seconds.

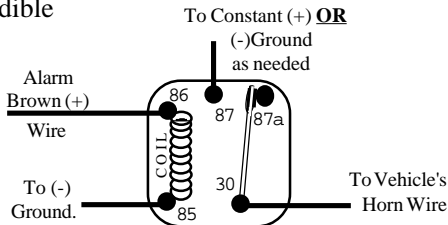
Feature Turned Off: Upon activation, the siren will sound for 30 seconds.

Please note that the shorter 30 second siren sounding time may be required in some localities to comply with noise nuisance ordinances.

Feature #18: Constant Or Pulsing Siren Output: (Factory Setting ON)

Feature Turned On: Upon activation, the siren output will be constant.

Feature Turned Off: Upon activation, the siren will sound will pulse. This feature allows the factory-equipped horn to audible be utilized as the security system's indicator, instead of the electronic siren. Please note that this application requires configuring an optional relay, which may require professional installation:



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