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All products for warranty repair must be sent postage prepaid to Omega Research & Development, Inc., P.O. Box 508, Douglasville, Georgia 30133, with bill of sale or other dated proof of purchase. This warranty is nontransferable and does not apply to any product damaged by accident, physical or electrical misuse or abuse, improper installation, alteration, any use contrary to its intended function, unauthorized service, fire, flood, lightning, or other acts of God.

This warranty limits the Company's liability to the repair or replacement of the product. The Company shall not be responsible for removal and/or reinstallation charges, damage to or theft of the vehicle or its contents, or any incidental or consequential damages caused by any failure or alleged failure of the product to function properly. Under No Circumstances Should This Warranty, Or The Product Covered By It, Be Construed As A Guarantee Or Insurance Policy Against Loss. The Company neither assumes nor authorizes any person or organization to make any Warranties or assume any liability in connection with the sale, installation, or use of this product.

MO_AL-1000ATV.REV1



"WE'VE GOT THE EDGE ON SECURITY"

OWNER'S MANUAL

MODEL: AL-1000^{ATV}

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This manual is written under the assumption that a power doorlock interface is installed with your Vehicle Security System. The type of this interface will vary from vehicle to vehicle, and in some instances may involve optional components. Also please note that this system has 21 Programmable Features (easily accessed by the vehicle owner) which allow the customizing of its operations. The Programmable Features, and the addition of an optional sensor may affect the exact operations as described in this guide, which reflects a typically-installed system with factory-set conditions of the Programmable Features. This product was designed for professional installation.

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.

If additional or replacement transmitters are desired, please legibly fill in the order form below. Cut out the order form, enclose a check or money order in the correct amount, (Please remit \$ 30.00 for each transmitter ordered) and mail to:

Omega Research and Development, Inc.

P. O. Box 508

Douglasville, Georgia 30133

Please send_____transmitters for my AL-1000^{ATV} vehicle security system.

Please send a street address. UPS does not deliver to P.O. Box numbers.

My name and address is:

NAME_____

ADDRESS_____

CITY_____

STATE & ZIP_____

I have enclosed a ☐ check or ☐ money order for \$_____.

Feature #19: Loud Or Soft Confirmation Honks.

(Factory Setting Loud (ON))

Feature Turned On: 12 Millisecond Confirmation Honks.

Feature Turned Off: 8 Millisecond Confirmation Honks.

If your security system is configured to use the vehicle's horn, this Feature allows a degree of compensation for the variance which is found in the length of the pulse required to honk the horn in a satisfactory manner.

Feature #20: 28 Second Lock Output Upon Arming. (Factory Setting OFF)

Feature Turned On: 28 Second Doorlock Output.

Feature Turned Off: .8 Second Doorlock Output.

If the vehicle is so equipped, this Feature allows the installer to take advantage of a preexisting Total Closure System.

Feature #21: 3rd Channel Output Activates Anti-Carjacking Feature:

(Factory Setting OFF)

Feature Turned On: Anti-Carjacking Protection Feature Activated By 3rd

Channel Output. This Feature allows remote activation of the Anti-Carjack Feature.

If this Feature is turned ON, pressing the Small Left Button on the transmitter for 3 seconds will activate the Anti-Carjacking Feature, but only when the ignition switch is "on". This Feature may be activated regardless of the setting of Feature #1, Ignition Activated Anti-Carjack.

Feature Turned Off: 3rd Channel Will Not Operate Anti-Carjacking.

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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.

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. Valet Switch is also used to temporarily override and disarm your security system in

before pressing the large button. Even if this Feature is used to remove the confirmation honks or chirps, the audible Automatic Transmitter Verification™ feature will still operate.

Feature #17: Activated Alarm Cycle 60 Or 30 Seconds. (Factory Setting 60 Seconds)

Feature Turned On: Upon activation, the horn or optional siren will sound for 60 seconds and the parking and interior lights will flash for 60 seconds.

Feature Turned Off: Upon activation, the horn or optional siren will sound for 30 seconds and the parking and interior lights will flash for 30 seconds.

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

Feature #18: Pulsed Horn/Steady Siren Output. (Factory Setting Pulsed Horn)

Feature Turned On: This is a Feature provided for the installer, which allows the use of an optional electronic siren in place of the existing vehicle horn(s) for the audible output of the security system. When configured for use with a horn, this output pulses for 10 seconds, then pauses for 5 seconds, repeating this cycle for the duration of the activated alarm period. This prevents the horn from overheating, thereby ensuring a maximum useful life to the vehicle owner.

Feature Turned Off: The optional electronic siren requires a continuous, steady output. The siren features six different siren tones, which change every 5 seconds.

second doorlock pulse time) for this feature to operate.

Feature Turned On: The unlock output provides two pulses.

Feature Turned Off: The unlock output provides a single pulse.

Feature #15: 3 Or 45 Second Fully Armed Delay: (Factory Setting)

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 an untriggered state.

Feature #16: Confirmation Chirp On Or Off: (Factory Setting ON)

Feature Turned On: The security system will honk the horn (or chirp the optional siren) for confirmation that the system armed and disarmed.

Feature Turned "Off": The security system will not have horn honks (or 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. Please note that eliminating the horn honk (or siren chirp) may be done on a onetime temporary basis through the use of pressing the small left transmitter button

the event you lose your transmitter and to initiate the transmitter code learning process.

Please spend time reviewing this guide to become familiar with your Excalibur vehicle security system. We have also included a section with tips on how to avoid becoming a victim of crime. You will find that your new Excalibur vehicle security system will give you years of trouble-free convenience and protection.

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 it's contents. **Note: For the first 48 hours after your new system is installed, every time the ignition switch is turned "on", the horn will honk rapidly (or the optional siren will chirp rapidly) for two seconds, and the LED Status Light will flash for 90 seconds. *This will also occur in the event of a new transmitter code being entered into the system.*** Also, in normal operation, 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.

system will rearm the and relock 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.

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 #12: 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 #13: .8 Or 3 Second Doorlock Pulse Time. (Factory Setting .8)

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 #14: 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

when the ignition is turned "off". Second, if your vehicle is configured to unlock the driver's door only upon disarming, these Features can be configured to unlock only the driver's door upon the ignition being turned "off". Please consult with the installer as to the feasibility of adding the driver's door only unlock configuration to your vehicle, as power doorlocking systems differ in compatibility to this feature.

Feature #9: Adding Open Door Bypass To #6, #7 And #8. (Factory Setting ON)

Feature Turned On: When the security system locks and unlocks the doors from Features #6, #7 and #8, 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 #10: Lights Stay On 5 Or 30 Seconds Upon Disarming.
(Factory Setting 30 Seconds)**

Feature Turned On: Upon disarming, the exterior and interior lights will stay on for 30 seconds, illuminating the way to your vehicle.

Feature Turned Off: The exterior and interior lights will stay on for 5 seconds when the system is disarmed.

**Feature #11: System Will Automatically Rearm 90 Seconds After Disarming.
(Factory Setting ON)**

Feature Turned On: When the transmitter has disarmed the security system, the

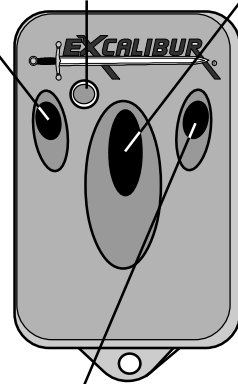
Transmitter Operations

Small Left Transmitter Button-

If this button is pressed and then the large button is pressed within 4 seconds, the security system will arm or disarm without audible confirmation. If this button is pressed within 4 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 4 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).

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



Small Right Transmitter Button-

If this button is 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 4 seconds, all of the doors will unlock. Pressing and holding this button for 3 seconds will "Panic" the system-which will sound the horn 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 horn will honk once (or the optional 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 19) without affecting any other trigger circuit. To deactivate the auxiliary sensor, simply press and release the small left transmitter button within 4 seconds after pressing the large transmitter

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: Unlock All Doors At Ignition "Off". **(Factory Setting ON)**

Feature #8: Unlock Driver's Door At Ignition "Off". **(Factory Setting OFF)**

These Features will cause the security system to automatically unlock either the driver's door or all of the vehicle's doors instantly when the ignition switch is turned "off". Please note that the exact operating parameters of these Features depends upon the configuration of the security system and your vehicle's power doorlocks.

This system may be configured to unlock only the driver's door upon disarming. Then, if desired, pressing the large transmitter button again within 5 seconds will unlock all of the doors. Therefore, these Features can operate one of two ways: first, if all of the doors unlock upon disarming, these Features will unlock all of the doors

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.

button when arming the system. You will hear a second horn honk (or 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 horn will honk once (or the optional 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 horn will honk again (or 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 honk (or 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 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 the system detects that your door is still open. We do not recommend leaving your ignition key turned "on". **Note:** 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 vehicle's horn, or optional electronic siren, will sound. The horn will sound a series of honks for 10 seconds, and then pause for 5 seconds to allow the horn to cool. This will occur for the duration of the activated cycle. The optional electronic siren features six different tones, and every 5 seconds the siren will change the tone to generate 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 horn (or siren) and the parking lights will stay active for 60 seconds, or, unless you disarm the system with the transmitter or the Easy Valet™ override switch. If all

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 honking the horn (or chirping the optional siren) 53 seconds after the ignition was turned "on". These Honks (or chirps) are to remind you that the Anti-Carjack is about to engage; pressing the valet switch during the honks (or chirps) will stop the Anti-Carjack feature. The honks (or chirps) will last for 7 seconds, after which time the horn (or siren) will fully engage and the parking and interior 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.

- 1) Ignition Activated Anti-Carjacking: **Default OFF.**
- 2) Door Activated Anti-Carjacking: **Default OFF.**
- 3) Last Door Arming: **Default ON.**
- 4) Doors Lock With Last Door Arming: **Default ON.**
- 5) Current Sensing: **Default ON.**
- 6) Doors Lock At Ignition "on": **Default ON.**
- 7) Unlock Output #1 At Ignition "off": **Default ON.**
- 8) Unlock Output #2 At Ignition "off": **Default OFF.**
- 9) Open Door Bypass Of Ignition Lock / Unlock: **Default ON.**
- 10) Lights "On" 5 Or 30 Seconds Upon Disarm: **Default 30 Seconds.**
- 11) 90 Second Automatic Rearming: **Default ON.**
- 12) Trunk Release Disarm: **Default ON.**
- 13) .8 Or 3 Second Doorlock Pulse: **Default .8.**
- 14) Double Unlock Pulse: **Default OFF.**
- 15) 3 Or 45 Second Arming Delay: **Default 3 Seconds.**
- 16) Confirmation Chirp: **Default ON.**
- 17) Activated Duration) 30 / 60 Seconds: **Default 60 Seconds.**
- 18) Pulsed Or Steady Horn / Siren Output: **Default Pulsed.**
- 19) Horn Honk 12 ms (loud) Or 8ms (soft): **Default 12 ms.**
- 20) 28 Second Door Lock Pulse: **Default OFF.**
- 21) 3rd Channel Output Activates Anti-Carjacking: **Default OFF.**

protected entries are secure at the end of 60 seconds, the system will stop and rearm automatically to detect another entry attempt. If there is a protected entry still open, or an optional sensor still in a triggered state at the end of 60 seconds, the system will reactivate for two more 60 second cycles. The system will stop after a total of 3 minutes and rearm automatically, while ignoring only the open entry or triggered circuit. When the entry is closed, protection will begin instantly for that circuit.

After the security system has been activated, the disarm confirmation will no longer be 2 honks (or chirps), and the parking lights staying on. Instead, the system will respond by producing 4 honks (or siren chirps) and the parking lights stay on for 30 seconds. The LED Status Light will change to flashing two to five times, then pausing 1 second to indicate which protected zone triggered the system. The LED Status Light will continue flashing this Zone Violation Code until the ignition key is turned "on", which clears the system's LED Status Light memory circuit.

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 the horn honking (or siren chirping) twice, and the

parking and interior lights turning on for 30 seconds. However, 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 horn honks (or 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 five seconds 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 rearm itself after 90 seconds and once again lock the doors. This feature is

- 2) Within 5 seconds of turning "off" the ignition, press the Easy Valet™ switch 5 times. The horn will honk (or the siren will chirp), followed by a short horn (or siren) 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 horn (or siren) will respond by honking (or chirping) the same amount as the feature number. Example: The horn honks 6 times)or the siren responds with six chirps).
- 5) Press the large transmitter button to turn the feature "on". When done, the horn will honk one time (or the the siren will respond with one chirp).
- 6) Press the small left transmitter button to turn the feature "off". When done, the horn will honk twice (or the 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 21 Programmable Features are:

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 7.

Programmable Features

Your vehicle security system has 21 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.

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. Also, Automatic Rearming can be turned off from the transmitter by the Remote Valet feature. **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 4 seconds of hearing the disarm horn honks (or 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.

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 sounding the horn (or optional 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, honking the horn (or 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 audible confirmation. This output can be used to operate optional equipment such as remote car starters or window roll-up modules.

Using The EasyValet^{T M} 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

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:

"off" the starter interrupt will engage.

Once fully engaged, the Anti-Carjacking Feature can only be disengaged by turning the ignition "off", then "on" again, after which the Easy Valet™ must be pressed within 5 seconds. When the Anti-Carjacking Feature is fully engaged, the system will not respond to the transmitters, nor will it automatically reset after 60 seconds.

Optional Pager Unit And Backup Battery

This security system is designed for easy compatibility with an optional Omega Pager unit and a Backup Battery (both of which require additional optional components). The Omega Pager will alert the user to a security system violation, and also indicate which protected zone caused the violation. The Backup Battery option will allow the security system to operate even if power is removed from the system's control module. The Omega dealer from which you purchased your vehicle security system can provide more detail on either's exact operation with your particular vehicle.

Optional Electronic Siren

Your vehicle security system may be enhanced with the addition of an optional electronic siren. The standard siren features a 127 dB output with 6 different siren tones, which may be programmed if desired. Also available are combination siren / voice modules, and battery-backup sirens.

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 honking the horn twice (or 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 horn will honk (or 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 system will 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. |

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.

Anti-Carjacking Protection

This security system features three optional forms of Anti-Carjacking protection. The Anti-Carjacking Feature may be activated by the turning "on" of the ignition, opening and closing a door after the ignition has been turned "on", or by the transmitter activating the 3rd Channel Output, but only when the ignition switch is "on".

The Anti-Carjacking Feature automatically activates for each of the three described conditions, provided that each has been programmed to operate. In each of the three methods, the vehicle operator has 53 seconds to press the Easy Valet™ Switch to cancel the Anti-Carjacking Feature. If not cancelled, at 53 seconds the horn will start honking (or the optional siren will chirp), to remind the operator that the Anti-Carjacking will engage. This will continue for 7 seconds, during which time the Anti-Carjacking Feature may still be cancelled. At 60 seconds, the Anti-Carjacking Feature fully engages, sounding the horn (or siren), flashing the parking and interior lights. 30 seconds after the siren and parking lights engage, or, any time the ignition is turned

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, as 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.

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's 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 #1 Auxiliary Sensor Port circuit.

Audible And Visual Indications

The Security system's audible output and the vehicle's parking and interior lights are utilized to indicate a number of events or processes associated with the system's operation:

- 1) One light flash upon closing the vehicle's door: *The system has started a passive Last Door Arming countdown and will become armed after the 30 second countdown expires. This indicates that the starter interrupt will engage and the doors will lock when the alarm becomes fully armed in 30 seconds.* Note: the optional siren will chirp once when the door is closed.
- 2) One horn honk (or siren chirp), one light flash, & doors lock: *The system has armed passively or actively from the transmitter. The starter interrupt has engaged and doors have locked. The optional sensor will become operational 5 seconds later.*
- 3) One horn honk (or siren chirp) after the arming chirp above: *The auxiliary sensor circuit is bypassed by pressing the small transmitter button within 3 seconds of pressing the large transmitter button.*
- 4) One horn honk (or siren chirp), and no light flash, but only at the moment the ignition switch is turned "off": *The alarm is in Valet Mode, and will not arm actively or passively.*

- 5) Two horn honks (or siren chirps) and the parking lights stay on for 30 seconds: *The system has just disarmed or remote trunk release has been activated.*
- 6) Two horn honks (or siren chirps) and two light flashes: *The system has just entered the Valet Mode.*
- 7) Four horn honks (or siren chirps) and the lights stay on for 30 seconds: *The system has just disarmed and was activated while you were away. The system will have this disarming confirmation until the ignition switch is turned "on".*
- 8) Horn honking in ten second intervals, pausing 5 seconds (or siren sounding, changing sounds every 5 seconds), and the parking lights flashing on and off: *The system is in an activated state. This will also relock the doors.*
- 9) A series of horn honks (or siren chirps) lasting two seconds after the ignition switch is turned "on": *The Automatic Transmitter Verification™ feature (Page 5) has been activated. This will also occur for 48 hours after installation.*
- 10) Three horn honks (or siren chirps) when the system is armed: *The Optional Prewarning feature has been activated.*

Auxiliary Optional Sensor Ports With Prewarn

Your Excalibur security system features two ports which allows an auxiliary sensor to easily be added to increase the effectiveness of your system. A Dual Zone Shock Sensor is included with the AL-1000^{ATV}. 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