

LIMITED LIFETIME WARRANTY

Products manufactured and sold by Omega Research & Development, Inc. (the Company), are warranted to be free from defects in materials and workmanship under normal use. If a product sold by the Company proves to be defective, the Company will repair or replace it free of charge within the first year and thereafter all parts to be repaired will be free with only a nominal charge for Omega's labor and return shipping, during the lifetime of the car in which it was originally installed.

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 assure any liability in connection with the sale, installation, or use of this product.

MO_AL100.REV1

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"Protect Yourself And Your Investment"

OWNER ' S MANUAL

For model:

AL-100-H

Security System For Factory Installed Keyless Entry Systems

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7) Control access of your keys and transmitters. Never leave your transmitter, house keys or other keys with a valet parking attendant or mechanic.

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7) Control access of your keys and transmitters. Never leave your transmitter, house keys or other keys with a valet parking attendant or mechanic.

Tips To Avoid Becoming A Victim

- 1) Always be aware of your surroundings. An alert and aware person is less likely to become a crime victim than someone who is preoccupied and easily approached.
- 2) While driving in high crime areas, always keep your doors locked and your windows up. Your Omega System can automatically lock your doors when the ignition switch is turned "on".
- 3) Always attempt to park your vehicle in a well lit and visible location with your system armed and doors locked. If your system has interior/exterior light illumination, take advantage of this feature to look in and around your vehicle.
- 4) While in parking garage structures, always attempt to back-in to your parking space. This will provide a less visually encumbered and quicker way to exit your parking space if you are being pursued. This will also allow you to better see the flashing exterior light confirmation, if equipped.
- 5) While driving or stopped at an intersection, if your vehicle is bumped in the rear by another vehicle or the vehicle behind you is flashing it's headlights, consider the occupants of the vehicle hostile and immediately drive to the nearest police or fire station. "Bump and run" thieves and carjackers are becoming an increasingly severe problem.

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Introduction

Congratulations on your purchase of an Omega Security system. The Omega series of personal convenience and security products are designed by Omega Research and Development, a leader in vehicle security since 1976. When beginning to use this system, you will be surprised at its user-friendly design, considering the system delivers features and benefits that not only anticipate but exceed your expectations.

The Omega AL-100-H is a fully-featured antitheft system which can detect an unauthorized entry and respond by flashing the exterior lights, honking the horn and relocking the doors (if an optional interface is installed). The AL-100-H becomes armed when you use your existing factory remote keyless entry transmitter to lock your doors, and becomes disarmed when your transmitter unlocks the doors. An Easy Valet™ Switch, in conjunction with the ignition key, allows you to disarm and temporarily override the security system in the event of your transmitter becoming inoperable or being lost.

Being that the AL-100-H is a universal add-on security system for existing keyless entry systems, the exact operations of the AL-100-H are determined in some extent to the particular vehicle and/or keyless entry system. Please remember that this guide outlines average operating parameters of the system. Please ask your new car salesperson to arrange a demonstration of the operation of your new security system.

In learning how to operate your security system, please become familiar with the following three principal components: your existing factory Keyless Entry Remote Transmitter, the Red LED Status Indicator and the Easy Valet™ Switch.

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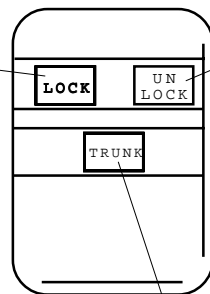
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Operation

LOCK BUTTON

Pressing the transmitter Lock button, in addition to locking all of the doors, will also arm the AL-100-H. The security system will respond by honking the horn or chirping the optional siren once and flashing the parking lights once.



UNLOCK BUTTON

Pressing the transmitter Unlock button, in addition to unlocking the doors, will also disarm the AL-100-H. The security system will respond by honking the horn or chirping the optional siren twice and turning on the parking lights for 60 seconds.

TRUNK BUTTON

Pressing the Trunk Release button will also disarm the security system in most applications, as well as opening or unlocking the trunk compartment.

These are the the typical functions of the factory keyless entry transmitter when operating the security system. Please remember that the AL-100-H is a universal add-on security system for existing keyless entry systems, the exact operations of the AL-100-H are determined in some extent to the particular vehicle and/or keyless entry system.

Prewarning Shock Detection Circuit: This circuit requires connection to an optional detection sensor device. When the sensor is triggered, the security system will respond by chirping the siren three times, flashing the parking lights once and relocking all of the doors. After this circuit has been triggered three times this feature will automatically shut down until the security system is rearmed again. This will prevent the system from being a nuisance to the general public.

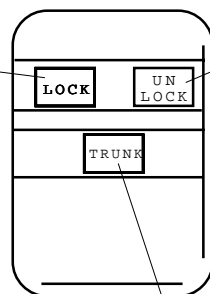
Power Doorlock Interface: The AL-100-H is designed to add a fully-featured security system to an existing factory-equipped Remote Keyless Entry system. While the factory transmitter allows remote locking and unlocking of the doors, the AL-100-H can also operate the power doorlocks as part of it's operation. If a thief triggers the security system or activates the Prewarning feature, the AL-100-H will automatically relock the doors. If a door is opened, this advanced feature will wait for the door to shut and then relock the doors. The AL-100-H can also be programmed to automatically lock the doors when the ignition switch is turned "On" and unlock them when the ignition switch is turned "Off", providing that a door is not open when the ignition switch is turned "On" or "Off". These features requires the installation of an optional doorlock interface.

Optional Electronic Siren: The AL-100-H can use either the vehicle's existing horn or an optional electronic siren. The AU-72 Electronic Siren has a 127 dB (decibel) sound level and features six police siren sounds which change every 5 seconds to produce twelve sounds per minute.

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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 the Remote Panic feature by depressing your vehicle's factory transmitter's Lock or Unlock button two to three times (varies from car to car) within six seconds. Your system will respond by activating the horn or optional siren, locking the doors and flashing the exterior lights for 60 seconds. To disengage Remote Panic, simply press either transmitter button. Pressing Lock will disengage Remote Panic and leave the system armed; pressing Unlock will disengage Remote Panic and leave the system disarmed. The Remote Panic feature will operate regardless of the security system's status: armed, disarmed or Valet Mode. This feature will also operate while the ignition switch is "On".

Options

Optional Plug-In Sensor Port

Your AL-100-H security system features a plug-in port which allows an optional sensor to easily be added to increase the effectiveness of your system. The comprehensive line of optional sensors 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. Your Omega dealer can provide more details on the complete line of sensors, and help you determine which sensor or sensors are best suited to your personal needs. Many of the sensors feature dual zone capability, which allows you take advantage of your security system's prewarn feature.

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Arming The System

Active Arming: The AL-100-H may be actively armed at any time when the ignition switch is "Off" by using the existing factory keyless entry transmitter to lock the doors. A passive form of arming, Automatic Last Door Arming, is optional and is discussed on Page 14. The system will respond with one horn honk or one optional siren chirp and one parking light flash unless the Active Arming Bypass feature is activated.

The AL-100-H features an Automatic Rearming feature which prevents accidental disarming. This commonly occurs when the transmitter button is accidentally pressed while walking away from the vehicle as the keys are being put into a pocket or purse. This feature is discussed in detail on Page 12.

Active Arming Bypass: Upon active arming (using the transmitter), if the hood and trunk protection circuit or if an optional sensor is in a triggered state, the AL-100-H will still arm. However, it's confirmation response will change to three horn honks (or siren chirps) and three parking light flashes. This will indicate that the trunk or hood is not secure or that an optional sensor is in a state that normally occurs only when the sensor detects an intrusion or shock to the vehicle. This allows securing of the trunk or hood, or inspection of the sensor.

Please note that the other protection circuits, such as the doors and current sensing (explained on Page 15), are fully operational and will activate the security system if violated. The system will remain operational except for the bypassed circuit(s). Thus, if the Active Arming Bypass is activated by a defective sensing switch or optional sensor, the AL-100-H can still be used until the problem is corrected. If the bypassed circuit is corrected while the system is armed, protection will resume on that circuit.

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Disarming The System

Disarming Using The Transmitter: The AL-100-H may be actively disarmed at any time while the system is armed by using the existing factory keyless entry transmitter to unlock the doors. The security system will respond by honking the horn or chirping the optional siren twice and turning on the parking lights. The parking lights will automatically turn off 60 seconds later unless one of the following occur: 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". This unique feature lights the area around the vehicle, lighting the way to your car.

Note: If the security system was triggered and reset while you were away from the vehicle the disarm confirmation changes to four horn honks (or siren chirps) and four parking light flashes before the parking lights turn on for the normal 60 seconds.

Note: The Automatic Rearming feature will rearm the system 90 seconds after disarming unless a door is opened. If the Last Door Arming feature has not been selected, this will stop any further automatic arming.

If the Last Door Arming feature has been selected, however, once a door has been opened, shutting the door will start this process, indicated by a horn honk (or siren chirp) and the parking lights flashing off once (the parking lights stay on for 10 seconds after opening the door). Turning the ignition switch "On" will prevent the security system from arming 30 seconds after the door was shut upon entering the vehicle.

Disarming The System Without The Transmitter: 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. The Easy Valet™ Switch is a small push-button that is

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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.

- 4) Automatic Locking Of Doors With Ignition Turned "On" And Unlocking With Ignition Turned "OFF": With this feature ON, the security system will automatically lock the doors 1 second after the ignition switch is turned "On" and unlock them when the ignition switch is turned "Off".
- 5) Current Sensing: With this 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). The security system will trigger if a current draw is detected.
- 6) Fifteen Second Entry Delay: With this feature turned ON, letting the security system automatically arm itself by Last Door Arming will allow a 15 second delay before the system triggers after opening a door. This feature is designed to allow operation of the security system even if the transmitter is lost or its battery becomes exhausted. Please note that actively arming the system by using the transmitter will bypass this feature.

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Programmable Features

Your AL-100-H security system has six programmable features that allow your system to be customized to fit your personal needs. These features are selectable by Dual Inline Pin (DIP) switches inside the security system control module. Please see your dealer or installer for more details, as we recommend that the installer change any of the following features:

- 1) Horn Honk Or Siren Chirp Confirmation On Or Off: With this feature is turned ON, when the security system is armed and disarmed the horn will honk or the optional siren will chirp to confirm that the system has responded to command from the transmitter. With this feature turned OFF, there will be no confirmation honks or chirps. Turning this feature OFF does not affect the optional Prearming feature.
- 2) The Doors Will Also Lock With Automatic Last Door Arming: With this 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.
- 3) Automatic Last Door Arming: With this 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 horn will honk or 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 #2 is selected, the doors will also lock. 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

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usually located in unobtrusive location accessible to the driver. In addition to providing a method to disarm the system without the transmitter, this switch also enters the AL-100-H into Valet Mode, which is discussed on Page 9. To disarm, follow this procedure:

- 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, sounding the horn or optional siren and flashing the parking lights).
- 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.

System Armed

While the AL-100-H is armed, the Red LED Status Indicator will be flashing. In addition to visual deterrence, the LED Status Indicator shows events that have occurred or actions that will take place in the system's operation. It is normally mounted in a conspicuous location easily seen from outside the vehicle.

The Starter Interrupt output will also activate. The Starter Interrupt will prevent the engine from starting when an attempt is made to start the engine. To minimize battery drain, this device does not draw electrical current unless the ignition switch is turned to the "Start" position.

While armed, the AL-100-H monitors all protected circuits for an intrusion attempt. If an optional sensor is utilized, the sensor will also be activated to monitor intrusion attempts. 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.

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While armed, the AL-100-H monitors all protected circuits for an intrusion attempt. If an optional sensor is utilized, the sensor will also be activated to monitor intrusion attempts. 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.

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System Activated

While the AL-100-H is armed, should any intrusion attempt occur, the security system will instantly activate or "trigger". Once triggered, the security system will respond by:

- 1) There will be an audible response. The horn will honk in pulses or the optional electronic siren will be activated.
- 2) The exterior lights will flash.
- 3) If the system has been connected to the vehicle's doorlocking system with an optional interface, the doors will relock so that the thief cannot easily regain entry.

The horn or optional siren and lights will stay activated for 60 seconds, unless the system is disarmed with the transmitter or placed in Valet Mode. If all protected entries are secure at the end of 60 seconds, the system will rearm automatically. 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 resume instantly for that circuit.

After the security system has been triggered, when it resets the disarm confirmation will no longer be 2 chirps and the exterior lights turning on immediately and staying on for 60 seconds. Instead, the system will respond by producing 4 siren chirps and flashing the lights 4 times before the lights stay on for 60 seconds.

The LED Status Indicator will indicate which zone activated the system. This is accomplished by the status indicator flashing one to three times between pauses, as defined on page 11, until the ignition key is turned "On". This Zone Violation feature does not require the system to reset at 60 seconds as an aid in diagnosis of the system.

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automatically rearm itself after 90 seconds and once again lock the doors. Note: Automatic Rearming can be stopped (provided the Last Door Arming feature is turned off) or paused (if the Last Door Arming feature is off) by opening the door; or stopped by turning "On" the ignition key. 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.

- 4) Power-Maze ® : If the Vehicle's battery is disconnected or if the security system's power wire is out, the Power-Maze ™ feature will allow the system to trigger as soon as the ignition circuit is hot-wired or receives power. The security system will stay activated as long as the ignition is hot-wired.
- 5) The Security System Activates When Power Is First Applied: If the vehicle's battery is disconnected and then reconnected, most other security systems will disarm. The AL-100-H security system will activate instantly when power is first applied.
- 6) Triggered Circuit Arming Bypass: Upon active arming (using the transmitter), if the hood and trunk protection circuit or if an optional sensor is in a triggered state, the AL-100-H will still arm but it's confirmation response will change to three horn honks (or siren chirps) and three parking light flashes. This will indicate that the trunk or hood is not secure or that an optional sensor is in a state that normally occurs only when the sensor detects an intrusion or shock to the vehicle. This allows securing of the trunk or hood, or inspection of the sensor. This feature does not operate with Last Door Arming.
- 7) Defective Circuit Bypass: When the security system is activated, if a trigger circuit stays in a triggered state, the system will stop sounding and flashing the exterior lights after three minutes and automatically rearm, bypassing the triggered circuit. If this circuit returns to a normal status, protection of that circuit will resume.

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the security system is disarmed or in Valet Mode.

- 4) Two horn honks or siren chirps and lights stay on for 60 seconds: The security system has just disarmed.
- 5) Two horn honks or siren chirps and two light flashes: The security system has entered the Valet Mode.
- 6) Three horn honks or siren chirps and three light flashes: The system is arming with a protected circuit still open (such as the hood or trunk) or an optional sensor in a triggered state, and indicating that these circuits will be bypassed.
- 7) Four horn honks or siren chirps & four light flashes, then the lights stay on 60 seconds: The security system has just disarmed and was triggered and reset while you were away.
- 8) Three horn honks or siren chirps and the lights flash once while the security system is armed: The Prewarn feature has been activated.

Automatic Functions And Features

- 1) Parking Lights Stay On For 60 Seconds After Disarming: After disarming the security system, the parking lights will turn on and stay on for sixty seconds before automatically turning off. This feature lights the way to your vehicle.
- 2) The Doors Will Instantly Lock If The Security System Is Triggered (Patent Pending) : If a thief triggers the security system the doors will automatically relock. If a door is opened, this advanced feature will wait for the door to shut and then relock the doors. This feature requires the installation of an optional doorlock interface.
- 3) 90 Second Automatic Rearming: Should you unknowingly activate your transmitter, which results in the doors unlocking and the security system disarming, the system will

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Using The Easy Valet™ Switch

The primary function of the Easy Valet™ Switch is to enable you to enter your security system into the Valet (override) 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. As discussed on Page 6, the Easy Valet™ Switch, in conjunction with the ignition key, can be used to temporarily disarm the system should your transmitter be lost or become inoperable. The Easy Valet™ Switch is normally mounted in an unobtrusive location that is accessible to the driver. Be sure your dealer indicates the location of the Easy Valet Switch™ to you to avoid potential inconvenience.

There are two procedures to follow to enter the Valet Mode. Normally, the ignition key is required to enter and exit the Valet Mode. With Easy Valet™ the ignition key is only required while disarming the system when the transmitter is not available.

Operating The Easy Valet™: This unique feature can be activated anytime the system is not in an armed state. This patent-pending feature allows you to enter the Valet Mode by simply depressing the Easy Valet™ switch. However, if the system is armed or in the triggered state, the ignition must be turned "On" and then the Easy Valet™ Switch pressed within 5 seconds to disarm the system by entering the 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 (or chirping the siren twice), flashing the parking lights twice and the LED Status Indicator turning on constant. The security system will hold memory of the Valet Mode when the ignition switch is "On" or "Off". While in the Valet Mode the system will not arm but the Panic feature and the remote locking and unlocking of doors from the transmitter will still function. In addition, the doors locking

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with ignition "On" and unlocking with ignition "Off" feature (with optional doorlock interface) will still operate.

To Turn Off The Easy Valet™ simply press the switch. Instantly the system will exit the Valet Mode and start a 90 second Automatic Arming sequence, indicated by the LED Status Indicator flashing fast. This sequence will stop when the ignition switch is turned "On". When this occurs, the system is completely out of the Valet Mode and the LED Status Indicator will turn off.

Regular Valet: Regular Valet is identical in every respect to Easy Valet™ except the ignition switch is "On" when the Easy Valet™ Switch is pressed. The only operating differences are:

- 1) The system can only be disarmed by pressing the Easy Valet™ Switch within 5 seconds after the ignition switch is turned "On".
- 2) If Regular Valet is used to enter the Valet Mode, pressing the Easy Valet™ Switch without the ignition switch "On", will result in the system coming out of Valet Mode immediately and not start the 90 second Automatic Arming countdown.

Red LED Status Indicator

The LED Status Indicator feature is a visual indicator of what state or condition 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 7 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.

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- 2) On Constant = The system is in the Valet Mode.
- 3) Flashing Slow = The system is Fully Armed.
- 4) Flashing Fast = The 30 second Last Door Arming feature or 90 second Automatic Rearming feature is in progress.
- 5) Flash 1x & Pause = The system was triggered by an optional sensor.
- 6) Flash 2x & Pause = The system was triggered by the hood or trunk circuit.
- 7) Flash 3x & Pause = The system was triggered by the door circuit or current sensing.

Audible And Visual Confirmation

The vehicle's horn or an optional 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 optional 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.

Horn Honk Or Siren Chirp With Light Flash Confirmation For Arming, Disarming & Valet Activation: The following horn honks or siren chirps and flashing exterior light actions inform you of these conditions of the security system:

- 1) One horn honk or siren chirp and one light flash: The system has armed.
- 2) Two horn honks or siren chirps (and no lights): Trunk release has been activated while

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