

United Kingdom customers: Please pardon our American English references and spellings. Trunk and hood references indicate the boot and bonnet, respectively; parking lights are indicator lights; gas/gasoline is petrol; a parking lot is a car park; windshield is windscreen.

Standard Features

The following are standard features of this system. Some vehicles may require optional parts/wiring and a few are incompatible with some features.

- ☑ EC-approved (Europe)
- ☑ Lifetime warranty (see terms & conditions)
- ☑ One master remote control, one companion remote
 - Extended range
 - ACG 2™ Anti-CodeGrabbing protection
 - Low remote control battery warning
- ☑ Remote engine starting
 - Automatic safety pre-remote-start checks
 - Auto engine shutdown upon intrusion attempt
 - Cold weather cranking
 - AutoShutDown after 30 minutes if unattended (duration adjustable via CliffNet Wizard)
 - Prevents accidental starter motor "grinding"
 - ShortStop: arm while idling for brief errands
 - Automatic transmission compatibility
 - Manual transmission compatibility
 - Gasoline & diesel compatibility
 - LowBattery AutoStart recharging
 - LowTemp AutoStart warm-up
- ☑ PlainView 2™ coded valet mode
 - Select your own secret code
- ☑ BlackJax anti-carjacking/self-recovery system
- ☑ NightVision headlight automation
- ☑ Front window AutoClose upon remote arming
- ☑ Remote controlled valet mode
- ☑ Built-in two-point AutoImmobilizer
- ☑ Untraceable Wireless Immobilizer for ultimate in security
- ☑ Remotely Adjustable Dual-Zone Proximity Sensor 4 detects movement in passenger compartment and outside windows
- ☑ Digital Tilt/Motion Sensor detects any forward/reverse motion or more than one degree lifting of the vehicle
- ☑ FACT anti-false alarm circuitry
- ☑ Passive AutoArming if you forget to arm with the remote
 - Lock upon AutoArming self-locking
 - Visual AutoArming countdown confirmation
 - Instant AutoArm bypass
- ☑ Smart DataPort input
 - For complete optional control of your system via your Windows PC
 - For smart accessory interfacing
- ☑ Self-Powered SmartSiren 4
 - Keeps wailing even if a thief cuts all the wires
 - Detects wire jumpering that defeats other battery sirens
 - Smart G4 Digital ComLink eliminates need for override keys
 - Selectable Personalized Siren Sounds*
 - Selectable 30/60/90-second siren duration*
 - Remote controlled chirp muting
 - Selectable QuietChirps/LoudChirps
 - Long-term selectable chirp muting
 - Remote siren silencing without disarming if falsely triggered
- ☑ Smart optional remote trunk release prevents falsing
- ☑ Power door lock control
- ☑ Ignition-switch controlled AutoLocking/AutoUnlocking
- ☑ Remote panic feature
 - Smart panic locking/unlocking based on whether the engine is on/off
- ☑ Built-in timer circuit for optional turbo timer
- ☑ Built-in parking light flasher
- ☑ Courtesy light(s) turn on when you disarm with the remote
- ☑ Smart AutoTesting self-diagnostics
 - With specific trigger & sensor identification
- ☑ Malfunction AutoBypass
 - Automatic trigger remonitoring if trunk/hood was open when arming
- ☑ Smart Prior Intrusion Attempt Alert
 - With specific trigger & sensor identification
- ☑ TotalRecall 8-event trigger/sensor memory report
 - With specific trigger & sensor identification
- ☑ Remote control code learning
- ☑ Clear all remotes if ever lost or stolen
- ☑ LED status indicator
 - Flash indications reveal status
 - Automatic battery saving mode
- ☑ Multiple vehicle control from the same remote control
- ☑ Multiple sensor/trigger inputs
- ☑ User-programmable features
 - SecureAccess coded programming
 - Programmable even while driving

**Not available on European models in compliance with EC95/56*

NOTE: Your system MUST be installed by an Authorized Clifford Dealer in accordance with the instructions we supply them. The system is intended for automobiles with a 12-volt battery and gasoline- or diesel-powered engine. Other than the remote controls, this system has no user-serviceable parts. Your Authorized Clifford Dealer can correct any system wiring problems and, if ever needed, can return any malfunctioning component to Clifford Electronics for repair/replacement under the warranty terms and conditions noted in this manual.

Maintenance

Your Clifford system requires no maintenance except for periodic replacement of the remote control batteries. This product, like any electrical device in your vehicle, requires your car battery be in proper working order and fully charged. To ensure proper operation, periodically have your vehicle battery "load-checked" at any local garage/mechanic. Also make sure the battery cables and connections are tight and free from corrosion.

Welcome to the world of high-technology vehicle security and convenience

Congratulations on the purchase of your Clifford Electronics mobile security/convenience system. Clifford Electronics has long been recognized as the leading manufacturer of high-technology vehicle security systems. Our commitment to technological innovation, quality and reliability is clearly evident in your Clifford system. Yet despite all its sophistication, your system is amazingly easy to use, never more difficult than a few presses of a button.

BlackJax vehicle recovery/anti-carjacking feature

AvantGuard 4's BlackJax feature provides a safe and effective means of recovering your vehicle after a theft or carjacking. In a carjacking situation, the sooner you are out of the car the better. Don't resist or take anything with you, just get out and get away. The instant the car door is opened, your AvantGuard 4 takes charge. First it allows the carjacker to drive a short distance, ensuring your safety. Then it repeatedly flashes the brake lights and continuously sounds the siren to caution nearby drivers and draw attention to your stolen vehicle. The system ignores the remote control at this point (since the carjacker most likely has it). Then when the carjacker slows for a turn or traffic, BlackJax safely shuts down the engine and prevents it from being restarted.

AvantGuard 4 assures the thief cannot restart the engine even if he were to find and remove the system control unit. Unable to restart the engine, and with your vehicle stalled in the middle of traffic — siren wailing and lights flashing — the carjacker has no choice but to abandon your car. (The same occurs to anyone who steals your parked car from you at a gas station or in a parking lot, which are the most common carjacking sites). To recover your vehicle, you simply walk a block or two to your car, enter your PIN (personal identification number) code, and the system releases control of the vehicle to you.

Your secret PIN code tells the system that the car is being driven by an authorized person. If you or a passenger opens and closes a car door at any point while the engine is running (as would occur in a carjacking attempt), *you must again enter your secret code.*

VERY IMPORTANT: The factory setting for the anti-carjacking feature is OFF. Once you are familiar with the following, we suggest you turn this feature ON (see the User-selectable features section). When anti-carjacking is on, each time you begin driving you MUST enter your PIN code via the PlainView 2 switch on the dashboard or console (unless the system is in valet mode). You may turn this feature on or off any time.

IF YOU HAVE THE PAGEMATE 4 OPTION: PageMate 4's phone-in STOP command eliminates the need to enter your PIN every time you drive. Instead, if your vehicle is stolen at gunpoint, just call your toll-free PageMate 4 phone number from any touch-tone phone and spell out STOP to activate the BlackJax anti-carjacking electronics.

Enable/disable the anti-carjacking feature

You may enable or disable the BlackJax anti-carjacking feature (see *User-selectable features*) or temporarily override it via PlainView 2 Coded Valet Mode.

Your secret disarming PIN code

Unless the BlackJax anti-carjacking feature is turned off or the system is in valet mode, 20 seconds after you switch on the ignition and press the brake (or open and close a door while the engine is running), you **must** enter your secret disarming PIN code on the PlainView 2 switch (mounted on the dashboard or console) to let the system know it is you who is driving.

Your system's factory-set PIN code is the single digit 2.

Entering a code

To enter your code, press the ★ button the appropriate number of times on the PlainView 2 switch on the dashboard or console followed by the blank button. To enter a zero, you simply press the blank button.

EXAMPLE: To enter the factory-set code of 2, you would press and release the switch in this manner: ★★ blank.

EXAMPLE: To enter a code of 1203, you would press: ★ blank, ★★ blank, blank, ★★★ blank.

IMPORTANT: What you MUST do to drive your car

If you have the BlackJax feature turned on, until you set your own PIN code, you will use the factory-set code of "2." To drive your car, do the following:

1. Shut all doors, then start the engine.
2. Enter the factory-set disarming code of 2: ★★ blank (you may do this while driving, if you wish).
3. The dashboard LED will flash on for an instant to confirm proper code entry. You may now drive or continue driving the vehicle.

What you MUST do if you hear 5 siren chirps while driving

If you forget to enter the code, the system will remind you 20 seconds after you begin driving by "chirping" the siren 5 times and flashing the LED. At this point, you have another 20 seconds to enter your code. When entered, the LED will stop flashing and the siren will chirp once to confirm proper code entry. If the proper code is **not** entered within 20 seconds after the 5-chirp signal, the engine will shut down as soon as you slow for traffic or a turn. You may enter your disarming code even after the engine is shut down. Once the proper disarming code is entered, you will be able to resume driving.

"Guessing" your code won't help a carjacker

What if the carjacker is familiar with Clifford's patented PlainView 2 coding system and tries guessing codes at random? No problem. After three incorrect codes are entered, the system will ignore any further code entries for a short time. So even if the carjacker were to actually stumble upon your code during this time, he would *still* not be able to silence your system or restart the engine.

How to set your own valet/disarming PIN code

Your secret valet/disarming PIN code will be used to deactivate BlackJax, enter valet mode and enter programming mode. You may choose any 1-4-digit PIN code, but the first digit must not be a zero (e.g., 1023 is a valid code, 0123 is not). See *User-selectable features*. Let's say you want to set a PIN code of 4301:

1. From the *Table of user-selectable features*, you would note that the *Set a new secret valet/disarming PIN code* feature is in column 2, row 7.
2. Enter program mode by turning on the ignition, entering your current code, then pressing and holding the ★ button of the PlainView 2 switch for 3 seconds until you hear a chirp.
3. Select column 2 by pressing the blank button twice. After a brief pause, you will hear 2 chirps to confirm that you have selected feature column 2.
4. Within 5 seconds, select row 7 by pressing and releasing the ★ button 7 times. To help you count, you will hear a chirp each time you press the ★ button. After 7 presses, **immediately** press the blank button, then **immediately** enter your new code.

Example: To enter 4301 as your new code, you would press the switch buttons in this manner: ★★ ★ blank, ★★ ★ blank, blank, ★ blank.

5. **Wait** for the 2-chirp confirmation.
6. Turn off the ignition to exit program mode (you'll hear a 3-chirp confirmation).
7. **VERY IMPORTANT: You must immediately test your new valet/disarming PIN code:** Turn on the ignition, enter your new code, then press and hold the blank button for 4 seconds. The LED will illuminate to indicate that the system is in valet mode. Turn the ignition off. The system is now in valet mode.

If the LED does not illuminate, the new code you programmed and the one you just entered do not match. In such a case, the system will revert to the previous code.

8. To exit valet mode and return to normal operation, turn the ignition on and enter your code.


Your remote controls


The 5-button master remote control and the 4-button companion remote are sophisticated miniature radio transmitters each powered by a tiny battery (12-volt alkaline for the master remote, a 3-volt lithium battery for the companion remote). A weak remote control battery will reduce range (the system will warn you if the battery in your remote is nearing the end of its useful life, see the *Low battery warning* section for details). Electrical/radio frequency interference, obstructions, weather conditions and even sunspots can interrupt the signal from your remote to the system. The remote controls are the keys to your system. But these remote controls are much more secure than car keys because each incorporates our ACG 2 (Anti-CodeGrabbing 2) technology with trillions of digital codes for the ultimate protection against remote control cloning devices. You will use your AvantGuard 4 remote control to arm and disarm the system, start the engine, lock and unlock the doors, activate/deactivate the panic feature, enter/exit valet mode and command options such as a remote trunk release, power window control, electric garage door interface or even remote starting of the engine and heater or air conditioner, among other options.


Remotely controlling your Clifford system


TO ARM: Press button 1 (master remote) or button  (companion remote). Upon arming: two siren chirps, two parking light flashes, dashboard LED flashes repeatedly and doors lock.

TO DISARM: Press button 1 (master remote) or button  (companion remote). Upon disarming: one chirp, one parking light flash, LED turns off, doors unlock and the interior lights turn on.

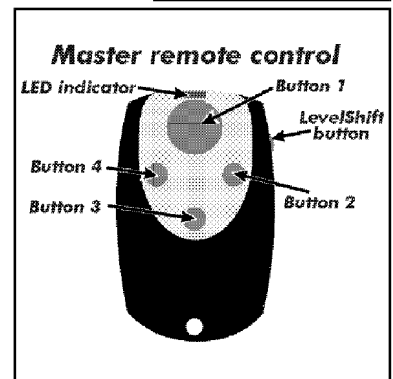
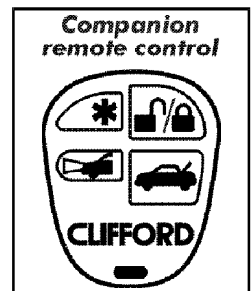
TO ARM OR DISARM SILENTLY: Simultaneously press button 3 (master remote) or both the  button **and** the ★ button (companion remote) to arm or disarm without chirp acknowledgments.



TO PANIC: For three seconds, *continually* press button 1 (master remote) or button  (companion remote). The parking lights will flash repeatedly and the siren will blare for 30 seconds (American model) or until you press the button again (European model). If the ignition is on (indicating you are in the car), the doors will automatically lock to prevent an assailant from entering (note: some vehicles are unable to lock the doors while the ignition is on). If the ignition is off, the doors will unlock, allowing you to enter immediately without fumbling with your keys.



TO REMOTELY OPEN THE TRUNK: If you have this option, press button 2 (master remote) or button  (companion remote) while the system is in its disarmed state.

TO REMOTELY TURN ON HEADLIGHTS: Press the master remote LevelShift button once, then button 1 or press button  (companion remote) to turn on the headlights for 10-seconds.










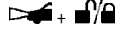
TO REMOTELY START THE ENGINE: Press button 4 (master remote) or button ★ (companion remote) to remotely start the engine (or shut it down if idling under the control of your AvantGuard 4). Before remote starting, be sure to see the **Remote Engine Starting DOs and DON'Ts** noted on page 12.



TO TURN VALET MODE ON OR OFF: Press the master remote LevelShift button twice, then button 1 or press buttons  and  (companion remote) to enable/exit valet mode.

TO REMOTELY OPEN OR VENT WINDOWS: If you have this option, press the master remote LevelShift button once, then button 2 or press buttons  and  (companion remote) after disarming to fully open the windows controlled by SmartWindows 4. On hot days, press this button combination right after arming to vent the windows slightly while the system remains armed.

OTHER FEATURES AND OPTIONS: Other system features and options can be accessed as noted in the following *Quick Reference* table:

QUICK REFERENCE: REMOTE CONTROL FUNCTIONS			
Function	Companion Remote Button(s)	Master Remote	
		LevelShift?	Button
Arm or disarm and lock or unlock the doors		no	1
Optional wired accessory #1* (usually optional trunk release)		no	2
Silently arm or disarm and lock or unlock the doors		no	3
Remotely start the engine (or shut it down in idling under AvantGuard 4's control)		no	4
Remote timed headlight activation		1 time	1
Unassigned or SmartWindows 4 accessory full open or post-arm venting*		1 time	2
Optional wired accessory #3* (usually IntelliVoice 4 voice synthesis on/off)		1 time	3
Unassigned*		1 time	4
Remote valet mode entry/exit		2 times	1
Remote override of the Dual-Zone Proximity Sensor 4		2 times	2
LowTemp or LowBattery AutoStart, and manual transmission SafeStart		2 times	3
Unassigned*		2 times	4
Unassigned*		3 times	1
Unassigned*		3 times	2
Remotely adjust sensitivity of the optional Dual-Zone OmniSensor		3 times	3
Remotely adjust sensitivity of the Dual-Zone Proximity Sensor 4		3 times	4

* These buttons/channels can be assigned to control Clifford systems and accessories on your other vehicles.

ACG 2 (Anti-CodeGrabbing 2™)

ACG 2 protects you and your automobile from code-grabbing devices. Code-grabbers record, from hundreds of feet away, the code sent by your car alarm remote control (code-grabbers are very similar to, but simpler than, cellphone “cloning” devices). The thief then plays back the code when you’re gone, instantly disarming the alarm and unlocking the doors. It’s like leaving your keys and remote in the door. Many non-Clifford alarms can be defeated that easily, and some of the latest “smart” code-grabbers can even decipher the code hopping/jumping sequence used by other car alarm manufacturers. In contrast, your AvantGuard 4 uses complex digital signal processing and unbreachable code encryption to randomly change the digital code every time you use the remote control. Your remotes will **never** transmit the same code twice, and the control unit will **never** accept the same code twice. Thus the code played back by the code-grabber — even the latest generation smart code-grabbers — will never be accepted by your AvantGuard 4 system.

Adding new remote controls

For other drivers, or to control Clifford G4 systems on your other cars with the same remote, you can buy additional remote controls from any Clifford Dealer (or direct from the Customer Service Department of your nearest Clifford Headquarters listed on the front cover) and program them into the system yourself. AvantGuard 4 will respond to as many as four remote controls.

NOTE: Clifford G4 systems will respond only to G4-type ACG 2 remote controls. Older Clifford ACG and non-ACG remote controls are not compatible with G4 systems.

To add a new **master** 5-button remote control, use the *Add new master remote* feature (column 1, row 1) of the *User-selectable features* table. To add a new **companion** 4-button remote, program each button and button combination to the specific functions noted in column 4.

Automatic remote control low-battery warning

If your remote control battery is low, you'll hear an unusually low-pitched chirp when you remotely disarm your AvantGuard 4. Replacement batteries are available from any Authorized Clifford Dealer.

Remote control battery replacement

Replacement of a remote control battery is fairly easy, but any Authorized Clifford Dealer will be happy to do it for you without cost provided that you buy the replacement battery at their shop (it's also a good idea to keep a spare of each battery in your glove box just in case).

Master remote:

1. Unscrew the retaining screw on the back of the remote control.
2. Carefully pry apart the remote control case with your fingernails or a small, thin screwdriver blade near the keyring opening (you may leave the keyring in place).
3. Remove the old battery noting the + and - indications and replace it with the new one.
4. Put the enclosure back together by first aligning the LevelShift button side, then the top of the remote, then snap the case back together at the bottom.
5. Reinsert the retaining screw but **DO NOT OVERTIGHTEN**.

Companion remote:

1. Insert a small, thin screwdriver blade in the slot near the keyring opening (you may leave the keyring in place) and turn it to separate the two halves.
2. Remove the old battery noting the + and - indications and replace it with the new one.
3. Put the enclosure back together by first aligning the top of the remote, then snapping the case back together at the bottom.

Two-Point AutoImmobilization

While armed, your system immobilizes both the starter and ignition systems of your vehicle to prevent a thief from starting the engine. The engine will remain immobilized even if a thief were to cut power to the system or find and remove the system control unit.

EC compliance in Europe only: Unlike the AutoArming feature noted above, AutoImmobilization occurs 30 seconds after turning off the ignition regardless of opening/closing the doors. When you remotely disarm, you have 30 seconds to start the engine. If more than 30 seconds pass, AutoImmobilization occurs, as indicated by the LED repeatedly flashing (but at a slower than normal "armed" rate). If AutoImmobilization occurs, use the remote control to arm and then disarm or use the engine restart feature below.

Wireless Immobilizer™


Clifford's Wireless Immobilizer interrupts a third point in the vehicle, such as the fuel pump. This Clifford innovation provides immobilization without any wires to the control unit, so a thief could not find the Wireless Immobilizer even if he tried tracing the system wires! Operation of the Wireless Immobilizer is automatic and user-transparent.

BE sure to keep the record your Clifford installer provides as to the location of the Wireless Immobilizer in case your vehicle needs future servicing.

NOTE: If your vehicle's engine ever stalls, the Wireless Immobilizer WILL engage. You must turn the ignition all the way to "OFF" in order to restart.

Engine Restart Feature: Europe only

In compliance with EC requirements, the AutoImmobilization will automatically engage thirty seconds *after* shutting down the engine. Thus AutoImmobilization may occur while waiting for a train to pass or other delay. To restart:

1. Turn the ignition switch to the "ON" position.
2. Press button 1 of the master remote control or button  of the companion remote.
3. You may now start the engine.

User-Selectable AutoArming™

If this feature is enabled and you forget to remotely arm, the system automatically arms itself 30 seconds *after* the vehicle doors are closed. For your convenience, if you re-open any door(s) within the 30-second countdown, AutoArming restarts the 30-second delay from the beginning after all doors are closed. AvantGuard 4 has these additional features:

- **AutoArming entry delay:** If you temporarily lose the use of your remote controls, you may turn on the AutoArming entry delay feature. If this feature and AutoArming are turned on, it allows you to enter the car (if it previously AutoArmed) and silently disarm the system by turning on the ignition within 15 seconds of opening the door. See *User-selectable features* (column 3, row 3).
- **Visual acknowledgment:** Five seconds after you exit, close all the doors and the interior light has turned off, the indicator lights flash twice to confirm the AutoArming countdown is progressing. Then, 25 seconds later, the system will AutoArm.
- **Lock upon AutoArming:** To ensure you can't accidentally lock your keys inside the car, the system is factory-set *not* to lock the doors upon AutoArming. To change this setting, see *User-selectable features*.
- **Instant AutoArming bypass:** Prevents AutoArming when fueling the vehicle and at other times when you wish to temporarily bypass AutoArming. To activate Instant AutoArming Bypass, rapidly turn the ignition switch to "ON" then "OFF." You will hear a siren chirp to confirm that the system will not AutoArm. The system automatically reverts to its normal operating mode when you next start the engine.

PlainView 2 Coded Valet Mode

All car alarms have a valet mode that turns off the security features. This mode turns off the alarm if the system is not responding to the remote. However, thieves disable other alarms by flicking this easy-to-find “hidden” valet switch. In contrast, your system has safeguards that ensure a thief cannot enable the valet mode as a way of “turning off” your system. To enable valet mode, the driver must first enter the secret valet/disarming PIN (personal identification number) code — the same PIN code described in the BlackJax anti-carjacking section — on the PlainView 2 switch mounted on your vehicle’s dash or console. When the system is in valet mode, it overrides AutoArming and all other security features, which is handy when refueling or washing your car.

The system’s factory-set valet/disarming PIN code is 2: ★★ blank.

NOTE: If you temporarily lose the use of your remote controls, you can disarm the system by enabling valet mode.


Entering a code

To enter your PIN code, press the ★ button the appropriate number of times on the PlainView 2 switch followed by the blank button. To enter a zero, you simply press the blank button.

EXAMPLE: To en

Self-Powered SmartSiren 4


The siren has a built-in back-up battery, so even if a thief cuts all the wires, the siren will *continue* to wail. This unique Clifford-designed siren also has all these important features:

- **Unbreachable Digital ComLink:** Clifford's ingenious serial communications link ensures that — if the system fuse is pulled, or if power to the system is interrupted, or if any siren wire is tampered with while the system is armed — the siren will instantly activate for five minutes. However, if the system is disarmed and power is interrupted for *authorized* servicing, the siren remains silent. This eliminates the need for a special separate shutoff key common to other battery-backed sirens. This ingenious Clifford feature guards against any possibility of a thief jumpering siren wires, which can defeat ordinary battery-backed sirens.
- **Smart-charging:** Other battery-backed sirens continually draw charging current from your vehicle's battery. In time, this can drain the car's battery. Clifford's Self-Powered SmartSiren 4 only draws charging current while the vehicle's ignition is on, i.e., while you're driving. This prevents battery drain.
- **Automatic low battery warning:** If the siren's back-up battery voltage is low, the usual arm and disarm chirps will be automatically muted to alert you of the problem. Once the back-up battery is charged, the chirps will automatically be restored.
- **User-selectable chirp volume:** You can control the volume of the arm and disarm chirps. From the factory, your system issues QuietChirps. If you prefer, you may select the full-volume LoudChirp acknowledgments. See *User-selectable features*.
- **Remote siren silencing:** If triggered by a non-threatening event, you can silence the siren without disarming. Press button 1 (master remote) or button  (companion) while the siren is sounding. Two chirps confirm a sensor activated the alarm and the system is *remaining* armed. Four chirps confirm the system is still armed, but the ignition is on or the hood, trunk or a door is open and this may indeed be a *genuine* theft attempt.
- **Automatic noise abatement:** Alarm sounding is limited to five siren duration cycles even if a door is left open in the wake of an intrusion.
- **User-selectable SilentNight:** The SilentNight feature automatically mutes the arm/disarm chirps at night, restores them during daylight.
- **Long-term chirp silencing:** You may silence the arm and disarm chirps on a long-term basis until you decide to restore them. Your vehicle's parking light flashes will continue to provide visual confirmation of remote controlled system arming and disarming. See *User-selectable features*.
- **Selectable siren duration (non-European models only*):** You may change the factory set 30-second siren duration to 60 or 90 seconds via the programming procedure or via the CliffNet Wizard software. See *User-selectable features*.
- **Personalized Siren Sounds (non-European models only*):** The Medallion siren sounds six different alarm sounds. You may turn any of the six sounds on or off via the *User-selectable features* programming to create a different combination of sound patterns. So if you hear a siren at a distance, you will know for sure whether it is your car or someone else's. See *User-selectable features* (column 1, row 2). What's more, with the optional CliffNet Wizard software and DataPort Replicator Cable, you may select up to six sounds from more than a dozen different siren sound choices for truly unique customization.
- **Choose when your Personalized Siren Sounds* play:** For more information at a distance, you may choose to have your Personalized Siren Sounds "play" every time the alarm is set off, or you may set them to sound them only upon trigger activation. When set to "trigger only" the basic siren wail will sound if a *sensor* is activated, but the Personalized Siren Sounds will play if the hood, trunk or a door is opened. See *User-selectable features* (column 1, row 3).

*Not available on European models in compliance with EC95/56

NightVision™

All of the following NightVision Headlight Automation features are built into your AvantGuard 4:

- **User-selectability:** You may turn the NightVision features on or off whenever you wish (see *User-selectable features*).
- **While driving at dusk:** The system automatically turns on the headlights.
- **While driving at dawn:** The system automatically turns off the headlights.
- **User-selectable activation threshold:** The NightVision electronics have a preset threshold that automatically turns on the headlights at about the same time as the public street lights turn on. If you find that your vehicle's headlights come on significantly earlier or later than the street lights, you may change NightVision's headlight activation threshold. See the *User-selectable features* (column 3, row 7) to change the threshold. To set the headlights to turn on when it is darker, select the "darker" setting, to have them turn on when it is lighter, select the "lighter" setting. The CliffNet Wizard software provides even greater incremental activation threshold control.
- **Intelligent activation:** The NightVision electronics automatically turn the headlights on or off only when necessary. For instance, if it is dark when the car's engine is started, NightVision instantly turns on the headlights. When the vehicle is briefly driven under an overpass in daylight, the headlights will not turn on. Even more importantly, when passing through a brightly lit area at night, the headlights will not switch off. However, if you drive into a dark parking structure during the day, NightVision will turn on the headlights within five seconds of entering the structure.
- **When parking at night:** NightVision keep the headlights on for any post-parking duration between one second and 4 minutes (factory preset to 10 sec.; see *User-selectable features* column 3, row 5) after you turn off the engine to light your path away from the vehicle. If you don't care for this feature, you may use the *User-selectable features* programming (column 3, row 6) to select all NightVision features *except* post-parking illumination.
- **Remote timed headlight activation:** Pressing button 4 on your master remote or button  (companion remote) will activate the headlights for any duration you select between 1 sec. and 4 min. (factory preset to 10 sec.; to change the duration, see *User-selectable features* column 3, row 5).
- **RainCheck:** When you turn on the windshield wipers NightVision automatically turn on the headlights to increase your vehicle's visibility to all other drivers on the road. This is also a great battery-saving feature since you don't need to remember to turn off the headlights after driving in the rain during daylight hours. If using intermittent wipers, just measure the maximum amount of time between wiper activations, add a second, then program the Headlight Duration (feature column 3, row 5) for that amount of time using the *User-selectable features*.
- **Manual control of headlights:** If you wish to manually turn on the headlights, simply turn on your vehicle's headlight switch.

Digital Tilt/Motion Sensor

This sensor continually analyzes all pitch, yaw and motion data to unerringly detect as little as one degree of lifting and/or any forward/reverse rolling while completely ignoring all other conditions that falsely set off all other sensors. Even if you park on a hill, the Digital Tilt/Motion Sensor will accurately respond to the first hint of tampering to reliably protect your wheels and entire vehicle. This sensor adjusts itself automatically the instant you arm your system.

Remotely Adjustable Digital Dual-Zone Proximity Sensor 4

Your system's other sensor, the Digital Dual-Zone Proximity Sensor 4, detects movement inside the passenger compartment and very near your vehicle. If a thief lingers very close to your windows, a warning tone sounds; if he were to lean into the passenger compartment, the primary zone of this sensor would trigger the full alarm. This sensor uses radar waves to detect movement. These waves pass through nonmetallic materials like plastic, carpet, glass and wood. However, metal and metallic paint, plastic and even some metallic film window tinting materials will interfere with or completely block the radar waves. As such, it is not unusual that the Proximity Sensor zones may need a little readjustment when you first have the system installed. In some instances, your Clifford installer may need to try a different location for the sensor.

If needed, you can adjust sensitivity of these sensor zones via your remote control as described in the following section. To prevent falsing, system sensors are bypassed when the engine is remotely started.

Metal above or near the Proximity Sensor will have a significant impact on operation. You should not place coins, CDs, cassettes (due to the iron oxide tape) or other metallic objects above or near where the sensor is mounted.

Timer options

The system's built-in electronic timer can be optionally wired to provide one of several different functions. Timer duration settings can be made by your installing Clifford Dealer or by you via the CliffNet Wizard. Ask your Authorized Clifford Dealer for further details:

Window AutoClose option

The timer can automatically close the windows upon remote arming on vehicles with an "all-close" feature that raises them if the key is held in the driver's door (a common feature on several European vehicle models).


NOTE: Although this timer circuit could be wired to control power windows on non-European cars that do not have this key-in-the-door "all-close" feature, Clifford Electronics strongly recommends against this. If so wired, the timer would force the window motors to "shut" the windows even if they were already closed. This places excessive strain on the vehicle's window motors, causing overheating, premature failure and even the possibility of fire. As such, if you cannot close the windows of your vehicle by turning and holding the key in the driver's door, do not permit the system's timer circuit to be wired to automatically close the windows.

If your car does not have an all-close feature, SmartWindows 4 is needed. In addition to automatically closing the power windows every time you arm, SmartWindows 4 also allows you to remotely roll down the windows after disarming and to remotely vent them open slightly for ventilation on hot days. Inside the car, SmartWindows 4 also provides one-touch full open, one-touch full close and one-touch stop to each of your factory window control switches.

Window AutoClose Instant Bypass

If you have the timer-based window closure option noted above, you may choose to arm *without* automatically closing the windows. This is handy on hot days by allowing you to leave one or more windows slightly open while the system remains armed. To do so, simply turn the ignition switch to "ON" and then "OFF" rapidly. You will hear a chirp confirmation (this action also activates *Instant AutoArming bypass* previously noted). When you then exit and arm, the system will *not* close the windows. Normal AutoClose operation is restored the next time you arm.

Turbo timer option

Vehicles with turbocharged engines often require a cool-down period of one to several minutes after driving, particularly high-rev driving. Until now, drivers of such vehicles had two choices: sit in the car after parking and wait several minutes to turn off the engine, or have an expensive turbo timer accessory added that would often interfere with car alarm operation. But with the addition of an optional relay, your system's timer output can save you money and make turbo cool-down easy and convenient. If you have this option installed, just press the assigned button or button combination (your Clifford installer will have told you which he has assigned to this function) on the remote control before shutting off the engine. Then remove your car key (the engine will continue running), exit, and press button 1 of the master remote or the  button of the companion remote to arm the system and lock the doors. While the system is armed, your AvantGuard 4 will continue to idle the engine for any duration you choose up to 4 minutes. To ensure against false alarms, the system will keep the sensors off-line while the engine is idling, then automatically bring them back online right after the engine is shut down.

Smart AutoTesting™

Each time you remotely arm the system, it tests all triggers and sensors. If the **hood or trunk** is open, the system will **immediately** sound **4 chirps** and **4 indicator light flashes** instead of the usual 2 and 2. If a **door** is ajar, you'll receive 2 chirps and 2 flashes, then, **5 seconds later**, there will be **4 chirps** and **4 flashes**. If a **sensor** is malfunctioning, you will receive the usual 2 chirps and 2 flashes, then, **10 seconds later**, there will be **4 chirps** and **4 flashes**.

NOTE: Since this is a warning indication, you will hear the 4 chirps even if you use the chirp muting feature.

- **Specific malfunction identification:** The system can also indicate the **specific** trigger or sensor that is malfunctioning. If you get the 4-chirp/4-flash signal upon arming, perform the following to identify the malfunctioning trigger or sensor:

1. Remotely disarm, then turn on the ignition. The LED status indicator inside your vehicle will be flashing, pause, then repeat.
2. Count the number of flashes in one cycle between pauses (for your convenience, the flash cycle repeats a total of 5 times) and refer to the chart below:

LED flashes	Meaning
1 flash	<i>Activation of the Proximity Sensor</i>
2 flashes	<i>Activation of the optional OmniSensor</i>
3 flashes	<i>Activation of the Tilt/Motion Sensor</i>
4 flashes*	<i>Door open/ajar</i>
5 flashes	<i>Trunk open/ajar</i>
6 flashes	<i>Hood open/ajar</i>
7 flashes	<i>Ignition switch was turned on while the system was armed</i>
8 flashes	<i>Three or more incorrect valet codes were entered</i>
9 flashes	<i>BlackJax anti-carjacking countermeasure was triggered</i>
10 flashes	<i>Power tampering or the vehicle battery is very low</i>

* If your vehicle has a factory-installed feature that turns off or dims the interior courtesy lights several seconds after you exit the vehicle, the system cannot provide this indication.

Automatic malfunction bypass with AutoReMonitoring™

The system automatically bypasses any faulty point and arms all *other* triggers and sensors for the utmost possible protection. If you accidentally arm with the hood, trunk or a door open, just close it (no need to disarm-and-rearm) and the system will again monitor that point.

Multiple-event TotalRecall™

The system's memory records the identity of the last eight activated or malfunctioning triggers and sensors, which allows your installer to instantly track down malfunctions. To identify the triggers and sensors held in the system's memory, use the following procedure:


1. Remotely arm and disarm while pressing the blank button on the PlainView 2 switch.
2. The LED will flash 1-10 times to indicate the most recently activated point, pause, flash 1-10 times to indicate the second most recently activated point, and so on.
3. Write down the number of flashes between pauses and refer to the chart above.

With the optional CliffNet Wizard, you'll see this chronological report right on screen.

Smart prior intrusion attempt alert

If you hear three chirps when you disarm, it means that a trigger or sensor was activated in your absence. When you turn on the ignition, the LED will flash 1-10 times, pause, then repeat the flash cycle 4 more times. Count the flashes in one cycle and refer to the chart above.

Smart trunk release option

If the optional remote trunk release was installed, you may use button 2 of the master remote control or the  button of the companion remote to release the trunk latch. The system's electronic interlock prevents unintentional activation of the remote trunk release when you drive, or when the system is armed. The Smart Trunk Release feature requires installer programming, so if you have the optional trunk release installed, you may want to verify that it will NOT activate when the system is armed. If it can be activated while armed, causing the alarm to sound, please return to your installing Clifford Dealer and have them correct this (it only takes a couple minutes and there will be no charge to you).

Optional CliffNet Wizard™ & DataPort Interface Connector

If you opted to have the Clifford DataPort interface connector installed with your system, you can use our CliffNet Wizard software to access your system through your Windows PC. CliffNet Wizard will show you, on your PC screen, all your user-programmable feature settings. You can change settings simply by mouse-clicking the graphical button for each feature. You can customize features, add or delete remote controls, change remote control button assignments, view a chronological history of trigger and sensor activations, and much more. It's actually fun! And secure. To learn more and download this free software, go to www.clifford.com/wizard.

REMOTE ENGINE STARTING

Important Remote Starting DOs and DON'Ts

DOs

- **Park in an open, well-ventilated area.**
- **Always engage the handbrake.**
- **Make sure you put the transmission in PARK (automatic) or NEUTRAL (manual) before shutting down the engine.**
- **Set your vehicle's air conditioner, heater and other accessories to the desired levels.**
- **Turn on your vehicle's ventilation "recirculate" feature to warm/cool the interior more efficiently.**
- **If your vehicle has a manual transmission, you must use the manual transmission SafeStart procedure.**
- **Before engaging AutoStart, make sure the fuel tank is full.**

DON'Ts

- **NEVER remotely start your vehicle's engine if parked in an enclosed area that lacks sufficient ventilation.**
- **NEVER allow children access to the remote controls.**
- **NEVER engage the ShortStop or AutoStart feature if parked in an enclosed area that lacks sufficient ventilation.**
- **NEVER remotely start or use ShortStop with a person or pet in the vehicle.**
- **NEVER start with someone behind or in front of the vehicle.**

Diesel compatibility

The system will activate the engine's glowplugs for the necessary duration before starting, either via a timer delay or through a direct connection to your vehicle's glowplug indicator (may require optional parts and wiring).

How to remotely start/shutdown the engine

Press button 4 on the master remote control or button ★ on the companion remote:

- Two parking light flashes confirm startup initiation.
- The engine and preset accessories (air conditioner, heater, etc.) will start and run.
- While idling, the parking lights stay on for ongoing confirmation visual confirmation.

When idling under the control of your AvantGuard 4, you may shut down the engine by again pressing button 4 (master remote) or button ★ (companion remote).

To drive the vehicle after remote starting

1. Disarm, enter, but don't touch the brake or transmission.
2. Insert your key and turn the ignition switch all the way on.
3. Press the brake. Your vehicle will now operate normally.

ShortStop

When you stop for a brief errand, rather than shut down and then restart the engine moments later, you may remove your car keys and remotely arm *without* shutting down the engine:

1. Park, place the transmission in park or neutral and engage the handbrake.
2. Without touching the brake, press button 4 (master) or button ★ (companion). Two parking light flashes will confirm this action.
3. Turn the ignition off and remove your keys. The engine will continue to idle.
4. Exit and arm with the remote control. The engine will continue to idle under the control of your system for up to 30 minutes.
5. When you return, use the *To drive the vehicle after remote starting* procedure noted above.

LowTemp/LowBattery AutoStart

Your system can be set to automatically start the engine if:

- The temperature drops below a certain level and/or
- The vehicle battery voltage drops below a certain level

If the LowTemp AutoStart feature has been programmed on and remotely activated by pressing the master remote control LevelShift button twice, then button 3 or by pressing button ★★ on the companion remote, the system will automatically start and idle the engine when the interior temperature drops to -15°C or lower. If the LowBattery AutoStart feature has been programmed on and remotely activated as noted in the system's complete owner's manual, the system will automatically start and idle the engine if the voltage drops below 12.2 volts to recharge the battery. With the optional CliffNet Wizard software and DataPort Replicator Cable, you may set the temperature and/or voltage thresholds you prefer.

Manual transmission SafeStart

PLEASE NOTE: This section is only for vehicles with a manual transmission. If your vehicle has an automatic transmission, skip this section.

For safety reasons, the transmission must be left in neutral if the engine will be remotely started. To assure safe remote starting, you must perform these steps **before** exiting:

1. Park and, while the engine is running, place the transmission in neutral and set the handbrake.
2. Without touching the brake, transmit channel 11 (LevelShift button twice, then button 3) on the master remote or press button ★★

EXAMPLE: Turn on Lock upon AutoArming and turn off Remote Valet Mode and FACT:

In the following example, we will change the settings of three different features in just one programming session: We will turn on the Lock upon AutoArming feature to set your vehicle's power locks to automatically engage whenever the system AutoArms, turn off remote controlled valet mode and turn off the FACT anti-falsing feature:

1. **Enter program mode** as previously noted (ignition on, enter your valet code, press and hold the ★ button on the PlainView 2 switch until you hear a chirp).
2. Since the *Lock upon AutoArming* feature is in column 3, row 2 of the Table, go to column 3 by pressing the blank button on the PlainView 2 switch three times. Wait for the 3-chirp/column 3 confirmation. Then press the ★ button twice (you'll hear a chirp each time you press the ★ button). After a brief pause, you'll hear 2 chirps to confirm that *Lock upon AutoArming* is now on.
3. Since *FACT* is also in column 3, there is no need to reselect column 3. Therefore, you can go straight to the row selection. Select row 4 by pressing the ★ button four times. After a brief pause, you'll hear one chirp to confirm that *FACT* is now off.
4. You'll note that the *Remote valet mode* feature is at column 2, row 3. To change to column 2, press the blank button twice, then wait for the 2-chirp/column 2 confirmation. Press the ★ button three times to select row 3. After a brief pause, you'll hear one chirp to confirm that the *Remote valet mode* feature is now turned off.
5. To exit the program mode, turn the **ignition off**. You'll hear 3 chirps to confirm program mode exit.

Reset All Features

If you wish to reset all the user-selectable features to their normal factory presets, you can do so simply by choosing the *Reset all features* selection (column 1, row 7) on the *Table of User-Selectable Features*. If you do so, all features — except the programmed remote controls and your valet code — will be reset to the factory settings that are indicated in **BOLD** type on the *Table of User-Selectable Features*. To reset all remote controls, use the *Clear all remotes* feature in column 2, row 6. To reset your valet code, use the *Set a new valet/disarming PIN code* feature in column 2, row 7.

Table of User-Selectable Features

Feature Select	1 blank press	2 blank presses	3 blank presses	4 blank presses
1 ★ press	Add master remote control NOTE 1	Chirps: off/loud/quiet (1/2/3 chirps)	AutoArming: off/on	NOTE 6 — Add companion remote: arm/disarm (1 then 2 chirps)
2 ★ presses	Personalized Siren Sounds** NOTE 2	SilentNight: off/on	Lock upon AutoArming: off/on	NOTE 7 — Add companion remote: trunk release* (2 chirps)
3 ★ presses	Play Personalized Siren Sounds**: trigger only/ always (1/2 chirps)	Valet mode entry/exit via the remote control: off/on	AutoArming entry delay: off/on	NOTE 7 — Add companion remote: silent arm and disarm (3 chirps)
4 ★ presses	Siren duration: 30/60/90sec.** (1/2/3 chirps)	AutoStart: both off/both on/temp only/battery only (1/2/3/4 chirps)	FACT: off/ on	NOTE 7 — Add companion remote: timed headlight activation* (4 chirps)
5 ★ presses	AutoLock: off/on/rpm-based	BlackJax anti-carjacking: off/on	Headlight duration: 1sec. – 4.25 min. (10sec.) NOTE 5	NOTE 7 — Add companion remote: remote engine starting (5 chirps)
6 ★ presses	AutoUnLock: off/on	Clear all remotes NOTE 3	NightVision: off/on/on without post- parking illumination (1/2/3 chirps)	NOTE 7 — Add companion remote: window rolldown/venting* (6 chirps)
7 ★ presses	Reset all features (except remotes and valet code) to factory settings	Set a new valet/disarming PIN code NOTE 4	NightVision activation: lighter/ twilight/darker (1/2/3 chirps)	NOTE 7 — Add companion remote: remote valet mode (7 chirps)

* Requires optional wiring or accessory; ask your Clifford Dealer for details.

**Not available on European models in compliance with EC95/56

NOTE 1: Press button 1 of the new MASTER 5-button remote control. You will hear one chirp. Immediately press button 1 again. You will hear two chirps to confirm that the new remote control has been added.

NOTE 2: Selection of this feature will cause the system to sound a few seconds of siren sound #1. Press the blank button to turn on this sound or the ★ button to turn it off. The system will then sound a few seconds of sound #2. Repeat: blank=ON, ★=OFF for each of the six sounds.

NOTE 3: You'll hear two chirps to indicate all remotes have been cleared from memory. You must now add new/existing remotes with the "Add master remote control" feature and/or the "Other vehicle's remote" feature.

NOTE 4: Immediately PRESS THE BLANK BUTTON, THEN enter your new code, wait for the two chirps, then turn off the ignition (you'll hear 3 chirps to confirm program mode exit). You MUST now turn the ignition back on and then re-enter your new PIN code. If the LED flashes on, your new code has been accepted. If the LED does not light, the two codes did not match and the system has reverted to your previous code.

NOTE 5: The timer starts when you select this feature. When the duration you wish has been reached, press the blank button on the PlainView 2 valet switch (you'll hear 2-chirps)

NOTE 6: Lets you arm/disarm with a new companion remote control or ANY remote (including 5-button master type) of a Clifford G4 system on your other vehicle(s). For instance, to set button ★ of the other car's companion remote to arm and disarm your AvantGuard 4, select column 4, row 1, then press button ★ of the other vehicle's remote (you'll hear one chirp). Immediately press button ★ a second time (you will hear a 2-chirp confirmation). Button ★ of the other vehicle's remote will now arm/disarm your AvantGuard 4 on this vehicle.

NOTE 7: The features in this column allow you to control your system with the remote control of a G4 system on your other vehicle(s). Just select the function you wish, then press the unused button or button combination on the other remote that you want to use to perform that function on this system (you will then hear the chirps noted). NOTE: You must first set a button or button combination on the other car's remote that will arm/disarm the system (column 4, row 1) before these others will be accepted.

Lifetime limited factory warranty terms & conditions

Clifford vehicle security systems and accessories require professional installation by an Authorized Clifford Dealer. Unless the system is sold and installed by an Authorized Clifford Dealer, all product warranties and guarantees are void. (UK: This does not affect your statutory rights.) As the manufacturer, Clifford Electronics warrants to the original consumer purchaser, the system control unit and remote controls to be free from defects in material and workmanship for as long as you own the vehicle in which the system was originally installed. All other parts of the system and accessories to the system are warranted to be free from defects in material and workmanship for one (1) year from the date of purchase. Clifford Electronics will repair or replace, at its option and free of charge during the warranty period, any system component that proves defective in material or workmanship under normal installation, use, and service, provided the product is returned to our factory by an Authorized Clifford Dealer, transportation charges prepaid. Products returned to our factory must be accompanied by a photocopy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture. Any damage to the product(s) as a result of misuse, abuse, neglect, accident, incorrect wiring, improper installation, destruction or alteration of the serial number, repair or alteration outside our factory, or any use violative of instructions furnished by us will void the warranty. This warranty is limited to defective parts and specifically excludes any incidental or consequential damages connected therewith. This warranty is not transferable. Clifford Electronics makes no warranty against theft. This warranty is not to be construed as an insurance policy against loss. Warranty on installation labor, removal and reinstallation charges are not the responsibility of Clifford Electronics, Inc.

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