

CLIFFORD

World-Class Auto Security™

concept
50

Owner's Manual

In the unlikely event you ever experience a problem that your local Authorised Clifford Dealer cannot resolve for you, you may call our toll-free emergency helpline at 0800 526708 during normal business hours, or pager number 0399 721739 after-hours.

CLIFFORD

World-Class Auto Security™

*All Concept Series systems are covered by
one or more of the following Clifford Electronics USA patents:
4,158,874; 4,233,642; 4,327,444; 4,383,242; 4,430,685; 4,845,464;
4,887,064; 4,890,108; 4,922,224; 4,997,053; 5,081,667; 5,146,215;
5,157,375, 5,467,070 and other patents pending*

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Standard Features of the Concept 50

- ☑ ***Thatcham-Evaluated***— The Concept 50 complies with the British Insurance Industry's Criteria for Vehicle Security as evaluated by Thatcham, the Motor Insurance Repair Research Centre.
- ☑ ***Lifetime Warranty***— The system control unit and remote controls are covered for as long as you own the vehicle (see the warranty card for details).
- ☑ ***FACT — False Alarm Control and Test***— Another patented Clifford innovation, FACT absolutely, positively puts an end to recurring false alarms.
- ☑ ***A Pair of 4-Button/12-Channel Remote Controls***— Fingertip command from a distance via the Rosewood or CarbonFibre style remote control.
- ☑ ***AntiScan***— Blocks electronic scanners from disarming your system.
- ☑ ***Anti-CodeGrabbing (ACG) with Random Code Encryption***— Since the remote control never transmits the same code twice, the random code encryption makes the remote control code-grabbers used by thieves completely useless.
- ☑ ***Multiple-Car Control***— Allows you to command Concept systems on your other vehicle(s) with the same remote control.
- ☑ ***UltraSecure Coded Valet Mode***— Ensures that no unauthorised person can engage the valet mode to turn off the system as they can with other brands of alarms.
- ☑ ***Patented Remote Control Code Learning***— Your Authorised Clifford Dealer can match up to a total of four 12-channel ACG remote controls to the system. In addition, the code of a lost or stolen remote can be deleted immediately to ensure that the missing remote control can never again be used to disarm your system.
- ☑ ***Unbreachable Digital ComLink***— Your Concept 50 maintains a coded digital communications link between the central processing unit microprocessor and the immobiliser's microprocessor. If a thief tries shorting, cutting or rerouting these lines, the coded data transfer will be interrupted and your Concept 50 will ensure that the thief will not be able to start the engine.

Standard Features of the Concept 50 (cont.)

- ☑ ***Failsafe MultiPoint Autoimmobiliser***— Automatically ensures that your vehicle is completely immobilised while you're away. While armed, your Concept 50 electronically disconnects your vehicle's ignition system, starter motor and electric fuel pump, making theft virtually impossible. What's more, even if a thief were to tear the Concept 50 control unit out of your vehicle, he would *still* be unable to start the engine! And Clifford's Failsafe circuitry assures your safety by making sure that the immobilisation electronics cannot be activated while driving, even if the system fuse were to blow.
- ☑ ***Remote Headlight Activation Capability***— Remotely turn on the headlights to illuminate your way to and from your car for any duration you wish between one second and two minutes (requires an optional relay).
- ☑ ***Remote Window and Sunroof Closure Capability***— On certain vehicles (including several models of BMW, Volkswagen and Jaguar), the addition of an optional relay enables the system to fully close all the power windows and sunroof every time you arm the system with its remote control.
- ☑ ***Dual-Sensor Protection***— Provides double the security via these two high-technology Clifford sensors:
 - *The system's Glass Tampering Sensor detects any attempts to break any of the vehicle's windows.*
 - *The Volumetric Radar Sensor will immediately activate the alarm if anyone reaches into your vehicle's passenger compartment. Unlike ultrasonic sensors, the Volumetric Radar Sensor is impervious to wind and temperature variations, guarding your vehicle even if the windows are left open.*
- ☑ ***Remote Controlled Sensor Override***— Just a press of a button on your remote control instructs the system to override both sensors. It's perfect for those times when you need to leave a passenger or pet in the vehicle.
- ☑ ***Dual-Mode Chirp Silencing***— Whenever you remotely arm or disarm, the siren "chirps" and the indicator lights flash. Whenever you wish, you may silence the chirps with either of these two methods:
 - *Remote chirp muting — Just press button 3 to silently arm and disarm.*
 - *Long-term chirp silencing — A few flicks of a switch is all it takes to silence the chirps until you choose to reactivate them.*

Standard Features of the Concept 50 (cont.)

- ☑ **Remote Door Locking/Unlocking**— *No more fumbling with keys in the dark or bad weather.* A single press of remote control button 1 simultaneously arms the system *and* locks the doors, another press disarms *and* unlocks.
 - **AutoLock** — *Automatically locks the doors when the ignition is turned “on”*
 - **AutoUnlock** — *Automatically unlocks when the ignition is turned “off”*
- ☑ **Patented Smart AutoTesting**— Automatically tests all sensors and triggers every time you remotely arm and specifically identifies any malfunction.
- ☑ **Patented Malfunction AutoBypass**— Automatically bypasses any trigger or sensor malfunction and arms all other points to continue providing the utmost possible protection.
- ☑ **TotalRecall**— Non-volatile memory stores the identity of the last trigger or sensor activated to provide diagnostic information.
- ☑ **Patented Smart Prior Intrusion Attempt Alert**— Specifically identifies the sensor or trigger activated by an attempted intrusion while you were away.
- ☑ **AutoArming**— Automatically (passively) arms itself if you forget.
 - **Visual Acknowledgment** — *The indicator lights flash twice to confirm initiation of the 30-second AutoArming countdown.*
 - **User-Selectable Lock upon AutoArming** — *Allows you to set the system to automatically lock the doors every time the system AutoArms.*
- ☑ **Advanced CMOS Microprocessor**— Commands and monitors all system functions more than 1,000,000 times per second, yet draws less power than your vehicle’s clock.
- ☑ **Remote Controlled Courtesy Lighting**— Turns on your car’s interior lights when you disarm and keeps them on for 30 seconds or until you start the engine, whichever occurs first.
- ☑ **Built-In Indicator Light Flasher**— Visually confirms alarm status from a distance, and repeatedly flashes the indicator lights when the alarm is tripped.
- ☑ **Control Unit with 4 Channels** — For accessories such as a remote boot release, power window control, memory seat activation, remote headlight activation, even remote engine starting.

Standard Features of the Concept 50 (cont.)

- ☑ ***Channel 4 with Selectable Output Type***— Your installer can set this accessory output to pulsed operation (for use with a remote controlled accessory such as a remote engine starter), latched on/off (to remotely operate your car audio system) or timed (for remote headlight activation or remote window/sunroof closure on certain vehicles).
- ☑ ***Smart Self-Powered Siren***— Built-in battery keeps the siren wailing even if all wires are cut! Won't drain your car battery like other battery back-up sirens.
 - ***User-Selectable 30/60 second siren duration.***
 - ***Low Battery Warning*** — *Automatically alerts you if the voltage of the siren's built-in battery is low or if it fails to hold a charge.*
 - ***Patented Automatic Noise Abatement*** — *Limits alarm sounding to five siren duration cycles to prevent battery drain and towing of the vehicle due to noise pollution.*
- ☑ ***High-Luminescence LED Indicator***— Adds visual deterrence and provides visual confirmation of system status.
- ☑ ***Full-Time Remote Panic Feature***— Remotely activate the siren and flashing indicator lights from inside or outside the vehicle, or even while driving.
- ☑ ***Multiple Trigger/Sensor Inputs***— For greater security and precise identification of the exact trigger or sensor tripped in a prior intrusion attempt.
- ☑ ***SmartPowerUp II***— The system's non-volatile memory always remembers what state (armed or disarmed) it is in even if power is removed. If a thief removes power while the system is armed and then restores it in an attempt to steal your car, Concept 50 instantly re-arms itself and sounds the siren.

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

Congratulations on the purchase of your Clifford Concept 50 remote controlled vehicle security and convenience system. Your Concept 50 is packed with protective features and lifestyle-enhancing convenience benefits, including Anti-CodeGrabbing with Random Code Encryption that fights off the latest and most onerous threat from high-tech thieves.

A thief with a code-grabber can record with total impunity the codes of your car alarm's remote control from up to several hundred meters away. How? The thief simply waits for you to arm or disarm your alarm with your remote control. The thief's portable, pocket-sized code-grabber will automatically pick and record the transmitted code off the air. As soon as you walk away, he simply plays it back, instantly disarming your alarm and unlocking the doors. It's like giving the thief your car keys. Code-grabbing will instantly defeat other brands of remote controlled car alarms, regardless of whether they are equipped with anti-scanning or trillions of digital codes.

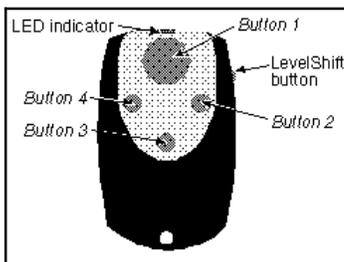
Clifford's unique PlainView Coded Programming switch ensures that no unauthorised person can tamper with your system's programming nor add a secret remote control to command your system. Concept 50's built-in Failsafe MultiPoint Immobiliser assures your vehicle cannot be driven away by even the most determined thief. We have even encased the immobilisation electronics in solid steel for extra security. Plus there's Clifford's ingenious Digital ComLink that assures protection even if a thief tampers with power to the system. Concept 50 also has remote controlled chirp muting, built-in circuitry for remote headlight control or, on certain vehicles, remote window rollup that saves you the cost of optional modules. The system's pair of 4-button remote controls let you remotely command up to 12 different functions easily and effortlessly. Yet despite all the sophistication, your Concept 50 is amazingly easy to use: never more difficult than a few flicks of a switch or a press of a button on one of your miniature keychain remote controls.

How to use your keychain remote control

Your remote control can command 12 different functions and options. The *LevelShift* button on the side of the remote control allows you to select channels 5–12:

- **To transmit either channel 1, 2, 3 or 4:** Just press either button 1, 2, 3 or 4. For instance, to transmit channel 3, press button 3. While you transmit, the LED indicator will flash once every second: this indicates **level 1**.

- **To transmit either channel 5, 6, 7 or 8:** Press the LevelShift button once. This shifts buttons 1–4 to level 2 (channels 5–8). Then press the corresponding button within the next 7 seconds. For instance, to transmit channel 5, press LevelShift once, then button 1. While you transmit, you'll notice that the LED indicator flashes twice, pauses, flashes twice, etc.: this indicates **level 2**.



- **To transmit channel 9, 10, 11 or 12:** Press LevelShift twice to shift buttons 1–4 to level 3 (channels 9–12), then press the corresponding button. Thus, to transmit channel 10, press LevelShift twice, then button 2. You'll notice that the LED flashes three times, pauses, flashes three times, etc.: this indicates **level 3**.

NOTE: One second after you stop transmitting level 2 or level 3 (channels 5–12), the remote control automatically returns to level 1 (channels 1–4).

What each button/channel does

Certain channels command certain functions. The chart below indicates what each remote control channel number does, and how to transmit each channel number.

Factory settings of the 12 remote control channels				
Transmitting channel number:	Causes the system to:	Press the LevelShift button?	How many times?	Press button number
1	arm or disarm and lock or unlock the doors	no	—	1
2	activate a remote controlled option	no	—	2
3	<i>silently</i> arm or disarm	no	—	3
4	turn on headlights*, close windows* or activate an accessory	no	—	4
5	control a Concept 50 on your second vehicle	yes	once	1
6	control a Concept 50 option on your second vehicle	yes	once	2
7	control a Concept 50 on your third vehicle	yes	once	3
8	control a Concept 50 option on your third vehicle	yes	once	4
9	remotely override both system sensors (see page 12)	yes	twice	1
10	control a Concept 50 on your fourth vehicle	yes	twice	2
11	control a Concept 50 option on your fourth vehicle	yes	twice	3
12	control a Concept 50 on your fifth vehicle	yes	twice	4

* Requires optional wiring and a relay

<p>TO ARM THE SYSTEM</p>	<p>Press button 1/channel 1 once. You will hear <i>two chirps</i> and the indicator lights will flash twice. The system LED will flash repeatedly and the vehicle's doors will automatically lock.</p>
<p>TO DISARM THE SYSTEM</p>	<p>Press button 1/channel 1 again. <i>One chirp</i> and one indicator light flash confirms disarming. The doors will automatically unlock and the interior lights will turn on and stay on for 30 seconds or until you start the engine, whichever occurs first.</p>
<p>TO <u>SILENTLY</u> ARM OR DISARM THE SYSTEM</p>	<p>Press button 3/channel 3. Concept 50 will arm or disarm with all the indications noted above <i>except</i> for the chirps.</p>
<p>TO ACTIVATE THE PANIC FEATURE</p>	<p>Press and hold button 1/channel 1 for 3 seconds. The indicator lights will flash repeatedly and the siren will blare for 30 or 60 seconds (user-selectable), or until you transmit channel 1 again to turn it off. For your personal safety, if the ignition is on (indicating you are in the vehicle), the doors automatically lock to prevent entry. If the ignition is off, the doors automatically unlock to allow you to enter without having to fumble with the keys.</p>
<p>TO ACTIVATE A REMOTE CONTROLLED ACCESSORY</p>	<p>Button 2/channel 2 controls an option such as a remote boot release, remote memory seat activation, the IntelliStart remote engine starter accessory or another remote controlled option.</p>
<p>TO REMOTELY TURN ON THE HEADLIGHTS, CLOSE THE WINDOWS OR CONTROL ANOTHER OPTION . . .</p>	<p>If so wired, button 4/channel 4 will either turn on the headlights for a duration of your choosing (your installer can set the duration to any interval you wish between one second and two minutes) OR will close the power windows and sunroof on various Jaguar, Mercedes Benz, BMW and Volkswagen vehicles. Alternatively, this output could also be used for a second remote controlled accessory such as those noted above.</p>
<p>TO CONTROL YOUR OTHER VEHICLES</p>	<p>Channels 5–8 and 10–12 (see <i>Your 4-button/12-channel remote controls</i> on page 7) can be programmed to operate Concept system(s) and optional accessories on your other car(s).</p>
<p>WHAT ABOUT CHANNEL 9?</p>	<p>Channel 9 remotely overrides both system sensors. See <i>Remote controlled sensor override</i> on page 12.</p>

AntiScan

Thieves can disarm some other brands of car alarms with a “scanner” that rapidly transmits one remote control code after another until it hits on the one that disarms the alarm. Clifford’s AntiScan detects any scanner and blocks the codes it generates.

Anti-CodeGrabbing (ACG) with Random Code Encryption

ACG protects you and your automobile from the most effective and onerous car stealing device ever used by car thieves — a code-grabber. Code-grabbers literally record, from hundreds of meters away, the code sent by your car alarm remote control. Then the thief simply plays back the code when you’re gone, instantly disarming the alarm and unlocking the doors. Your Concept 50 has Clifford Electronics’ proprietary ACG technology, which uses complex proprietary digital signal processing and unbreachable encryption to randomly change the digital code every time you use the remote control. Your remote will ***never*** transmit the same code twice, and the control unit will ***never*** accept the same code twice.

Clifford Electronics also offers an optional ACG interface (#64-128/ACG) to your electric garage door/gate opener that not only allows you to command your garage door and/or gate opener(s) via your Clifford remote control, but also protects your garage and home from burglars with code-grabbers.

Unbreachable Digital ComLink

This ingenious Clifford feature guards against any possibility of a thief tampering with the system. Concept 50 maintains a coded digital communications link between the central processing unit microprocessor and the immobiliser’s microprocessor. If a thief tries shorting, cutting or rerouting these lines, the coded data transfer will be interrupted and Concept 50 will instantly immobilise the vehicle and ensure that a thief will not be able to start the engine.

AutoArming

If you forget to remotely arm your Concept 50, the alarm it will arm itself automatically (“passively”) 30 seconds after the ignition has been turned off and all the vehicle doors are closed. For your convenience, if you re-open any door(s) within the 30-second count-down, alarm AutoArming will restart from the beginning once all doors are closed.

- ***Visual acknowledgment:*** Five seconds after you exit the vehicle and close all the doors, the indicator lights will flash twice to confirm that 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 preset *not* to lock the doors upon AutoArming. To change this setting, see *UltraSecure Coded Programming Mode* on pages 16-17.

UltraSecure Coded Valet Mode

Your secret valet code

In seconds, thieves can disable all other alarm brands by hotwiring the ignition and flicking an easy to find “hidden” valet switch. Your system has safeguards that absolutely ensure a thief cannot enable the valet mode as a way of “turning off” your system. How? To enable valet mode, the driver must first enter a secret valet code on the PlainView switch. Your code will be a 1-to-3-digit number of your choosing. Each digit can be any number from 1 to 9, (i.e. the code can be any number between 1 and 999, except those that contain a zero). Whenever the system is in valet mode, it overrides the AutoArming feature (see page 9) and all the security features are turned off. At various times, you will need to switch the system off. For instance, when having your car serviced, washed or parked by a valet.

Your factory-set valet code is the single digit “2.”

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

Definitions

- **Digit:** A digit is defined as any number from 1 to 9, inclusive.
- **Valet code:** A valet code may be 1 to 3 digits:
 - A one-digit code=X=any number between 1-9
 - A two-digit code=XY=any number between 11-99 (excluding numbers with zeros)
 - A three-digit code=XYZ=any number between 111-999 (excluding zeros)**Remember, no code can have a zero.**
- **PlainView switch:** A rocker switch mounted on the dashboard or console. The switch has three positions: **1.) Latched 2.) Centre 3.) Spring-loaded momentary.** When you press the latched side, the switch remains in its pressed position. When you press the momentary side, the switch bounces back to the centre position.
- **Entering a digit:** To enter a digit, you tap (press and release) on the momentary (spring-loaded) side of the PlainView switch the number of times corresponding to the numeral of the digit to be entered, followed by pressing to the latched side, then returning the switch to its centre position.
- **Entering a code:** If your code has only one digit, enter the code as described in “Entering a digit,” then return the switch to its centre position. If your code has more than one digit, just repeat the above for each digit of your code, then return the switch to its centre position.

To enable valet mode

1. Turn the ignition switch to its “ON” position or start the engine.
2. Enter your valet code on the PlainView switch, then return it to its centre position.
3. You now have 5 seconds to press the **latched** position to enter valet mode. The system LED will glow continually for on-going visual confirmation of valet mode.

To exit valet mode

1. Turn the ignition switch to its “ON” position or start the engine.
2. Flick the switch back to its centre position. The LED will turn off to confirm that the system is now in its normal operating mode.

Setting your own secret valet code

Since all Concept 50 systems have the same factory-set code, it is highly advisable that you set your own valet code. You may choose any 1-, 2-, or 3-digit code that does not have any zeros. You can also change the code whenever you want.

1. Write down the 1-to-3 digit code you wish to use (remember, no zeros in the code).
2. Turn your vehicle’s **ignition** switch to its “**ON**” position.
3. Enter your **current valet code** (if setting a new code for the first time, enter the factory-set code of “2” by tapping the momentary side of the switch twice, then pressing the latched side).
4. When the LED turns on, immediately tap and release the **momentary** side of the switch **6 times** (after the first three taps, you will hear a single chirp confirmation each time you tap the momentary side — in this case for a total of 3 chirps).
5. Immediately after the 3rd chirp, press the **latched** side, then **enter your new code**. You’ll hear the same number of chirps as each digit of your code each time you press the latched side. When done, return the switch to its **centre** position. **Wait** until you hear 2 chirps and see the LED turn off, then turn the **ignition off**.
6. **VERY IMPORTANT:** You must **test** your new valet code. **Wait at least 10 seconds**, then turn on the ignition and re-enter your new code. The LED should turn on. Return the switch to its centre position. **NOTE: If the LED does not illuminate, your new code was entered incorrectly. The system has AUTOMATICALLY REVERTED TO THE PREVIOUS VALET CODE.**

- **Example:** Let’s say you want to change the code from its original single-digit “2” code to a double-digit code of “31.” You would do the following:

Turn the **ignition on**, enter your **current code**, tap the **momentary** side of the PlainView switch **6 times**, press the **latched** side, then enter the new code: **momentary, momentary, momentary, latched** (3 chirps), **momentary, latched** (1 chirp), **centre**. **Wait** for the 2 chirp confirmation and the LED to turn off, then turn the **ignition off**. **Wait 10 seconds**, turn the **ignition on** and test the new code.

Dual-sensor protection

Concept 50 has both a Glass Tampering Sensor and a Volumetric Radar Sensor. The Glass Tampering Sensor detects attempts to break any of the vehicle’s windows. For improved sensitivity in vans and other large vehicles, your installer can add a second miniature microphone. The Volumetric Radar Sensor detects anyone leaning into the passenger compartment, so it will protect your car even if it’s a convertible or soft-top, or if you happen to leave the window(s) open. Unlike ultrasonic sensors, the Volumetric Radar Sensor is impervious to wind and temperature variations.

Failsafe MultiPoint AutoImmobilisation

Concept 50 has a multipoint AutoImmobiliser that, when active, will immobilise your vehicle by electronically interrupting the ignition, starter and fuel pump. AutoImmobilisation occurs 30 seconds after you turn off the ignition. It will also occur 30 seconds after disarming the system. ***AutoImmobilisation is completely independent of the alarm's AutoArming feature.*** The dashboard LED will repeatedly flash slowly when the immobiliser is active, and rapidly when both the immobiliser and alarm are active. Be aware that after disarming your Concept 50, you must turn on the ignition within 30 seconds or AutoImmobilisation will occur.

NOTE: If the engine will not start, more than 30 seconds have passed since remote disarming or since turning off the vehicle's ignition switch. Thus, the system has automatically engaged the immobilisation circuitry. You may deactivate immobilisation simply by pressing remote control button 1 or button 3 once to fully arm the system, then again to fully disarm.

- ***Failsafe Operation:*** To ensure your safety, the immobilisation circuitry cannot under any circumstances be activated while you are driving, even if the system fuse were to blow.
- ***Encased in Steel:*** To provide even greater assurance against any possibility of tampering, Concept 50's immobilisation electronics are encased in steel.

Remote controlled sensor override

Normally the sensors detect movement in the passenger compartment and high-pitched sounds similar to glass breaking while the system is armed. Concept 50 lets you arm and then override the sensors via the remote control. It's perfect when you need to leave a passenger or pet in the vehicle. To override the sensors:

1. Arm with remote control button 1/channel 1.
2. Anytime thereafter, transmit channel 9 (LevelShift button twice, then press button 1). You will note that the vehicle's indicator lights will flash four times to confirm that the sensors have been overridden. The sensors will automatically be reactivated the next time the system is armed.

How to interpret the LED status indicator

The LED on your car's dashboard or console will inform you of the system status:

LED Condition	Meaning
Off	System is disarmed and in normal operating mode; you may drive the vehicle
On	Valet mode is on
Flashing	System is armed (also indicates that the AutoImmobilisation feature has engaged, which occurs 30 seconds after the ignition is turn off; see page 12).
Pause between flashes	Either a malfunction (see page 13) or an intrusion was attempted (see page 14)

How to interpret the chirps and indicator light flashes

When you use the remote control, the system responds with chirps (unless the chirp muting feature is turned on) and indicator light flashes:

Chirps and flashes	Meaning
1	Your Concept 50 system is disarmed
2	Your Concept 50 system is armed
2 and then 4	Armed but one of the sensors is malfunctioning (see <i>Smart AutoTesting</i> on page 13)
3	Disarmed and there was an intrusion attempt (see <i>Smart prior intrusion attempt</i> on page 14)
4	Armed but the bonnet or boot is open (see <i>Smart AutoTesting</i> on page 13)

Smart AutoTesting

When remotely armed, your Concept 50 tests all triggers and sensors. If the **bonnet or boot** is open when you arm, your Concept 50 will **immediately** alert you of the problem by issuing **4 chirps** and **4 indicator light flashes** instead of the usual 2 and 2. If one of the **sensors** is malfunctioning, you'll receive the usual 2 chirps and flashes, then, **5 seconds later**, there will be 4 chirps and 4 flashes.

- **Specific malfunction identification:** The system can also indicate the **specific** malfunctioning trigger or sensor. This saves you time and money since your installer won't have to spend hours trying to determine where the problem is:

1. When you insert your key and turn on the ignition, the LED indicator inside the 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 5 times) and refer to the chart below:

Number of LED flashes between pauses	Malfunction
1 flash	Volumetric Radar Sensor
2 flashes	Glass Tampering Sensor
4 flashes	Boot trigger
5 flashes	Bonnet trigger

Automatic malfunction bypass

To provide the utmost protection even if a system component malfunctions, your Concept 50 will automatically bypass the faulty point and arm all **other** triggers and sensors until you can have the system serviced by your local Authorised Clifford Dealer. If you accidentally armed the system with the boot or bonnet open, simply disarm, close it, then rearm. The system will then monitor that point again.

Smart prior intrusion attempt alert

If you hear three chirps (instead of the usual one chirp) upon disarming, it means the system sounded in your absence. When you enter the vehicle and turn on the ignition (or start the engine), the LED will flash several times, pause, then repeat the flash cycle 4 more times. Count the number of flashes in one cycle and refer to the chart on page 13.

Smart Self-Powered Siren

This siren has its own built-in back-up battery, so even if a thief cuts all the wires, the siren will *continue* to wail. Comes with two security override keys in case you ever need to turn off the siren.

- ***Smart-charging:*** Other battery-backed sirens continually draw charging current from your vehicle's battery. In time, this can drain your battery. Clifford's Smart Self-Powered Siren only draws charging current while the vehicle's ignition is on, i.e., while you're driving. This prevents battery drain.
- ***Long-term chirp silencing:*** Whenever you wish, you may silence your Concept 50's arm/disarm chirps until you wish to restore them. The indicator light flashes will continue to provide visual confirmation of remote controlled arming and disarming. See *UltraSecure Coded Programming Mode* on pages 16-17.
- ***Remote controlled chirp muting:*** Remote controlled chirp muting capabilities are especially valuable when parking late at night in a quiet residential area. To arm or disarm silently, simply press button 3/channel 3 on your remote control instead of the usual button 1/channel 1.
- ***Siren duration:*** When the system detects an intrusion attempt, the alarm is set to sound for 30 seconds. However, if you prefer, you may change it to 60 seconds. See the *UltraSecure Coded Programming Mode* section on pages 16-17. To ensure against battery drain or towing of the vehicle due to noise pollution, the siren will sound for no more than 5 continuous minutes.
- ***Self-powered:*** If a thief were to cut the siren's wires, the siren will continue to sound for 5 minutes.
- ***Low battery warning:*** If at any time the siren's back-up battery voltage is low or it fails to hold its charge, the normal arm and disarm chirps will be muted to alert you of the problem. Once the back-up battery is charged, the chirps will automatically be restored.

FACT— False Alarm Control and Test

With FACT, you'll never experience repeated false alarms. If the siren goes off, DO NOT remotely disarm the system; allow it to run for the full siren duration. Before sounding a second time, the system automatically checks for another activated trigger or sensor to verify that an intrusion is in progress. Should the siren sound again, ***you will know for sure*** that someone is tampering with your vehicle. If you prefer, you may disable or re-enable the FACT feature, see *UltraSecure Coded Programming Mode* on pages 16-17.

TotalRecall

The system's memory records the identity of the last activated or malfunctioning trigger or sensor. To identify the trigger and/or sensor held in the system's memory:

1. With the ignition OFF, flick the PlainView switch to its latched side.
2. Press button 1/channel 1 to "arm" the system, then again to "disarm."
3. The LED will flash 1–5 times, pause, then repeat the flash cycle 4 times.
4. Count the number of flashes in one cycle and refer to the chart below:

LED flashes per cycle	Trigger/sensor indicated
1 flash	Volumetric Radar Sensor
2 flashes	Glass Tampering Sensor
3 flashes	Door trigger
4 flashes	Boot trigger
5 flashes	Bonnet trigger

AutoLock/AutoUnLock

For the safety of you and your passengers, your Concept 50 system automatically locks the doors when you turn on the ignition to start the engine, and unlocks them when you turn off the ignition. If you prefer, you may disable or re-enable this feature, see the *UltraSecure Coded Programming Mode* section on pages 16-17.

Remote headlight activation OR window/sunroof closure

The system's channel 4 output can be optionally wired and programmed by your installer to control either remote headlight activation OR, on certain vehicles, remote power window/sunroof closure. Please see page 8: "*To remotely turn on the headlights . . .*" If button 4/channel 4 on your remote control activates the headlights, your installer can set the system's built-in timer to any interval between one second and two minutes. This will allow you to activate your vehicle's headlights for the duration of your choosing to illuminate your way to and from the vehicle. All it takes is a single press of button 4 on the remote control.

SmartPowerUp II

If power to the system is ever removed and restored, SmartPowerUp II automatically resets the system to the same state it was in when power was cut. Thus, if a thief removes and restores power in a theft attempt, the system will instantly reset itself to its armed state, sound the siren and flash the indicator lights. (NOTE: Even when no power is being supplied to the system, Concept 50's three immobilisation points — the ignition, starter and fuel pump — remain electronically disconnected to ensure that a thief will fail in his attempt to steal your vehicle). However, if the system is disarmed and your mechanic interrupts power, the system will automatically and silently be restored to disarmed mode when he reconnects power.

UltraSecure Coded Programming Mode

Your Concept 50 vehicle security system allows you to set many of its features to your own personal preferences. We have made the programming procedures very simple: to make a change, you just press the PlainView switch a few times. The system comes from the factory with all of its features pre-programmed as noted in the table that follows. To change any of the settings, use the procedure noted. To restore the feature to its factory setting, just repeat the procedure.

How to program user-selectable features

1. Select the feature you wish to program from the table that follows. Note the number of momentary taps.
2. Turn your vehicle's ignition switch to its "ON" position.
3. Enter your valet code (see page 10).
4. When the LED turns on, immediately tap and release the momentary side of the switch the number of times indicated in the third column of the programming table for the feature you selected (after the first three taps, you will hear a single chirp confirmation each time you tap the momentary side).
 - a. If noted, perform the "secondary action."
5. Return the switch to its centre position. You will hear 1 chirp and the LED will turn off. Turn the ignition off.
6. Repeat steps 1-5 for any other features you wish to program.

Programming table for user-selectable features

Feature	Factory setting	# of momentary taps	Secondary action	Program completion confirmation	Result
Lock upon AutoArming	OFF	4	—	1 chirp 3 seconds after last step	Change state from OFF to ON or vice-versa
Arm/Disarm Chirp Confirmation	ON	5	—	1 chirp 3 seconds after last step	Change state from ON to OFF or vice-versa
Valet Code	See <i>Setting your own secret valet code</i> on page 11.				+
AutoLock/ AutoUnLock	ON	7	—	1 chirp 3 seconds after last step	Change state from ON to OFF or vice-versa
Siren Duration	30 sec.	8	—	1 chirp 3 seconds after last step	Change duration from 30 to 60 seconds or vice-versa
FACT	ON	9	—	1 chirp 3 seconds after last step	Change state from ON to OFF or vice-versa

Example

To change the Lock upon AutoArming feature from its factory setting of off to on, you would do the following:

- *Turn the ignition key to the ON position.*
- *Enter your programming code, then immediately tap and release the momentary side of the PlainView switch 4 times (you will hear a single chirp upon the 4th press).*
- *Wait 3 seconds. The system will sound one more chirp to confirm that the Lock upon AutoArming setting has been changed.*
- *Turn the ignition off.*
- *That's all there is to it!*

Adding new remote controls

For other drivers in your family or if you wish to control Concept 50 systems on your other cars with the same remote control, you can buy additional remote controls from **any** Authorised Clifford Dealer, who can program them into the system for you. Each Concept 50 will respond to as many as four Clifford ACG remote controls. For security and insurance reasons, you must provide your Authorised Clifford Dealer with three proof-of-ownership forms:

1. Your Clifford "Certificate of Installation/Ownership/Operation."
2. A photocopy or the original purchase receipt of your Concept 50 (including installation charge).
3. Proof of identity to match the name on both items 1 and 2 above.

Upon presentation of the above and verification of its authenticity, you may purchase one or more new remote controls from your Authorised Clifford Dealer who will programmed it (them) into your Concept 50 system.

Erasing the codes of lost or stolen remote controls

If one of your remote controls is ever lost or stolen, it poses an obvious security risk to your vehicle since the missing remote control can be used to disarm your system. Your Authorised Clifford Dealer can erase its code from the system memory to make sure that the missing remote control can never be used to disarm your system. To do this, you must bring your vehicle and all valid remote controls to your Authorised Clifford Dealer for re-programming.

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