

CLIFFORD

World-Class Auto Security™

concept
50

Owner's Manual

*All Concept Series systems are covered
by one or more of the following Clifford Electronics 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 and other patents pending*

CLIFFORD
WORLD-CLASS AUTO SECURITY™

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Standard Features of the Concept 50

- ✔ **Limited Lifetime Warranty** — Your system control unit and remote controls are covered for as long as you own your car (see warranty card for details).
- ✔ **FACT™** — False Alarm Control and Test — Eliminates recurring false alarms.
- ✔ **Built-In BlackJax Anti-Carjacking System** — You get all of these features for the ultimate in safe and effective vehicle recovery:
 - **Greatest Carjack Protection** — No buttons to push, no transmitters to carry, you do nothing except get out of the vehicle. Your Concept 50 allows the criminal to drive a safe distance of a block or two, then flashes the parking lights, sounds the Medallion Siren and safely shuts down the engine.
 - **Safe & Intelligent Engine Shutdown** — Concept 50 waits for the carjacker to slow for traffic or a turn, then safely shuts down the engine without endangering the lives of others.
 - **Immediate Vehicle Recovery** — Since the vehicle will be immobilized just a block or two away, you can recover it yourself well before it reaches the chop shop.
 - **PlainView™ Coded Disarming Switch** — No “hidden” switch that carjackers can find in an instant. The PlainView switch accepts only your code, and you may change your code any time or place.
 - **Anti-Tampering** — If the carjacker tries entering codes and/or button sequences at random, after three incorrect codes, the system will lock itself out for two minutes and not respond to any code, even if the criminal were to stumble onto the correct one!
 - **Sabotage-Proof** — Even if the thief could find the system control unit and tear it out of the car, the engine **REMAINS IMMOBILIZED!**
- ✔ **Ignition Immobilization** — Your car's ignition and fuel system are electronically disconnected while your Concept 50 is armed.
- ✔ **A Pair of 4-Button/12-Channel Remote Controls** — For fingertip command of your Concept 50 system from up to 100 feet away.
- ✔ **AntiScan™** — Blocks electronic scanners from disarming your system.
- ✔ **Proprietary Anti-CodeGrabbing™ (ACG) with Random Code Encryption** — Since the remote control never transmits the same code twice, the random code encryption makes the new remote control code-grabbers used by thieves completely useless.
- ✔ **Multiple-Car Control** — Allows you to command Concept Series systems on your other vehicle(s) with the same remote control.
- ✔ **Patented Remote Control Code Learning and MultiRemote™ Recognition** — Add or delete, with just a few flicks of a switch, up to four Clifford Anti-CodeGrabbing remote controls.
- ✔ **Patent-Pending UltraSecure Coded Valet Mode**— Ensures no thief or carjacker can turn off your Concept system like they can all other alarm brands.
- ✔ **Built-In Parking Light Flasher** — Visually confirms alarm status from a distance.

Standard Features of the Concept 50 (cont.)

- ✔ **Dual-Sensor Protection** — The Dual-Zone Magnetic Resonance Sensor detects intrusion related vibrations and the Glass Tampering Sensor detects attempts to break any window.
- ✔ **Remote Sensor Adjustment** — Incredibly easy and accurate sensor adjustment and testing. Just use the remote control to adjust your sensor any time, any place, without tools and without even knowing where the sensor is mounted.
 - **16-Step Incremental Sensitivity Adjustment** — For the utmost in fine-tuning accuracy. Gives you remote controlled access to 16 sensitivity levels for each of the two sensing zones of the Magnetic Resonance Sensor.
 - **Tonal Confirmations of Sensor Adjustments** — As you remotely increase sensitivity, the confirming chirps rise in pitch. Conversely, as you lower each zone's sensitivity, the confirmation chirps become lower and lower in pitch.
 - **Adjust and Test Unobtrusively** — No repeated arming and disarming, and no siren wailing. Concept 50 lets you set and test sensitivity without activating the alarm!
- ✔ **Remote Headlight Activation Capability** — Remotely turn on your vehicle's headlights to illuminate your way to and from your car.
- ✔ **Remote Window and Sunroof Closure Capability*** — Fully close all the power windows and sunroof with a press of a button on your remote control.
- ✔ **QuietChirps™** — Select soft or full volume arm/disarm chirp confirmations.
- ✔ **Dual-Mode Chirp Silencing** — Long-term chirp silencing or remote controlled chirp muting.
- ✔ **Smart Trunk Release Capability** — Electronic interlock ensures that the trunk can be remotely opened only when the alarm is disarmed.
- ✔ **Remote Door Locking/Unlocking** — Lock/unlock the car doors with your remote control.
 - **AutoLock™** — Automatically locks the doors when the engine is started.
 - **AutoUnLock™** — The doors automatically unlock when the ignition switch is turned "off"
 - **Deluxe Remote Keyless Entry in Valet Mode** — Allows for remote door locking/unlocking with visual parking light confirmations and interior light illumination even while the system is in valet mode.
- ✔ **Remote Courtesy Lighting** — Automatically turns on your vehicle's interior light(s) when you remotely disarm; the lights stay on for 30 seconds or until you start the engine, whichever occurs first.
- ✔ **Headlight Reminder** — Warns you if you forget to turn off the headlights after.
- ✔ **Patented Smart AutoTesting™** — Automatically tests all system sensors and triggers, and identifies any malfunction.

**On various models of BMW, Mercedes Benz, Jaguar and Volkswagen.*

Standard Features of the Concept 50 (cont.)

- ☑ **Patented Malfunction AutoBypass™** — Automatically bypasses any trigger or sensor malfunction, then arms all other points for the utmost possible protection.
- ☑ **Eight-Event TotalRecall™**— Stores the identities of the last eight triggers and/or sensor activated. This provides an invaluable informational and diagnostic means
- ☑ **Remotely Activated Valet Mode** — Lets you engage or disengage valet mode via your remote control.
- ☑ **Remotely Activated Long-Term Chirp Silencing** — You can also turn long-term chirp muting on and off from up to 100 feet away!
- ☑ **Smart AutoArming™** — Automatically (passively) arms itself if you forget. May qualify you for a substantial discount on your vehicle insurance (ask your insurance company).
 - **AutoArming Enable/Disable** — Allows you to enable or disable AutoArming any time.
 - **Visual Acknowledgment** — Visually confirms initiation of the 30-second AutoArming countdown with two flashes of the parking lights.
 - **User-Selectable AutoArm & Lock** — Allows you to select whether the doors will lock when the system AutoArms.
 - **Instant AutoArming Bypass™** — Lets you temporarily turn off AutoArming with just a turn of the ignition key.
- ☑ **Patented Smart Prior Intrusion Attempt Alert** — Specifically identifies the sensor or trigger activated by an attempted intrusion while you were away.
- ☑ **High-Output Medallion Siren** — Designed exclusively by Clifford Electronics for greater performance and 10 times the reliability of other manufacturers' sirens.
 - **Personalized Siren Sounds** — To distinctly identify your vehicle from a distance, you may, at any time, select your choice of any of 64 different siren sound combinations.
 - **User-Selectable 30/60 second siren duration.**
 - **Patented Automatic Noise Abatement** — Limits alarm sounding to no more than 5 siren duration cycles to prevent battery drain and towing of the vehicle due to noise pollution.
- ☑ **Fault-Proof Starter Interrupt Output**— Prevent an intruder from cranking the engine while the system
- ☑ **High-Luminescence LED Indicator** — Adds visual deterrence and provides visual confirmation of system status.
- ☑ **Full-Time Remote Panic Feature** — Lets you remotely activate the siren and parking lights 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.
- ☑ **Full-Time User-Friendly Programming Access** — You can alter feature settings to precisely suit your needs. It's so easy, you can even do it while driving!

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

Congratulations on the purchase of your Clifford Concept 50 remote controlled vehicle security/convenience system.

Your Concept 50 is packed with protective features and lifestyle convenience benefits that other car alarm companies don't even have on their wish lists, let alone their alarms. Features like Anti-CodeGrabbing™ that fights off the latest and most onerous threat from high-tech thieves. A thief equipped with a code-grabber can record with total impunity the codes of your car alarm's remote control from up to several hundred feet 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 all other brands of remote controlled car alarms, regardless of whether they are equipped with anti-scanning or trillions of digital codes.

Concept 50's built-in BlackJax anti-carjacking and vehicle recovery system enhances your personal safety and virtually assures that your vehicle can be promptly recovered intact. Clifford's unique PlainView Coded Valet Switch ensures that no thief, carjacker or joy-rider can turn off your Concept 50 like they can with all other car alarm brands. For total freedom from incorrectly adjusted sensors, there's remote controlled adjustment of the system's Dual-Zone Magnetic Resonance Sensor that allows you to set the desired sensitivity level any place or time with just a touch of a button on your remote control. Plus there's remote controlled valet mode, user-programmable Medallion™ Siren with 64 distinctly different siren sound combinations to set your alarm apart from all others, full-time programming access (even while you're driving) to dozens of features, and much, much more.

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.

Built-in vehicle recovery/anti-carjacking circuitry

Concept 50's built-in BlackJax circuitry provides a safe and effective means of recovering your vehicle after a theft or carjacking.

IMPORTANT: *The factory setting for this feature is OFF. Once you are familiar with the following, we suggest you turn this feature ON (see pages 20–22). When anti-carjacking is on, each time you begin driving you MUST enter your disarming code as noted below (unless the system is in valet mode).*

Your secret disarming code tells the system that the car is being driven by an authorized person. Also, if you open your car door at any point (as would occur in a carjacking attempt), you must again enter your secret code. Entering your code is simple and easy.

Definitions

- **Digit:** A digit is defined as any number from 1 to 9, inclusive.
- **Disarming code:** A disarming 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 numbers with 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.) Center 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 center position. Each time you drive your car, you must enter your secret disarming code via the PlainView switch.
- **Entering a digit:** To enter a digit, you tap (press and release) on the momentary 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 center 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 center 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 center position.

Your secret disarming code

Unless the system is in valet mode (see page 13), within 20 seconds after you switch on the ignition and press the brake (or open a door while the engine is running), you must enter your secret disarming code to let the system know it is you who is driving. 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).

Currently, your system's factory-set disarming code is the single digit "2."

IMPORTANT: What you MUST do to drive your car

Until you set your own secret disarming code, you will use the factory-set disarming code, which is the single digit “2.” To drive your car, do the following:

1. Start the engine, then press and release the brake pedal.
2. Within 20 seconds, enter the factory-set code via the rocker switch mounted on your vehicle’s dashboard or console (you can do this while driving):
 - a. To enter the factory-set disarming code of “2,” tap the momentary (spring-loaded) side of the PlainView switch twice.
 - b. Press the PlainView switch to its other side (latched side), then return the switch to its center position. You may continue driving.

NOTE: If you wish, you may select to use a remote control button sequence to disengage the anti-carjacking countdown. A dedicated disarming remote (not carried on your keychain) is also available. See pages 19–21 for information.

What you MUST do if you forget to enter the disarming code

If you forget to enter the code, Concept 50 will remind you to do so 20 seconds after you begin driving by “chirping” the siren 5 times and flashing the LED on the dashboard. At this point, you have another 20 seconds to enter your code. When entered, the LED will stop flashing. If the proper code is not entered within 20 seconds after the 5-chirp signal, the engine will shut down. 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.

How to set your own secret disarming code

Since all Concept 50 systems have the same factory-set disarming code (“2”), it is highly advisable that you set your own disarming code. You may choose any 1-, 2-, or 3-digit disarming code so long as it does not have any zeros. You can also change your disarming code whenever and wherever you want. See User-selectable features on pages 19–21.

Enable/disable anti-carjacking

If you prefer, you may enable or disable the anti-carjacking feature (see User-selectable features on pages 19–21) or temporarily override it via valet mode (see page 13).

What to do in a carjacking situation

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, Concept 50 takes charge. First it lets the carjacker drive your vehicle a short distance, ensuring your safety. Then it flashes the brake/hazard lights to call attention and caution drivers behind your vehicle that it is about to stop. It then sounds the Medallion Siren and waits for the carjacker to slow for a turn or traffic, at which point it shuts down the engine and dynamically prevents it from being restarted. If the carjacker tries to use the PlainView switch to enter code combinations at random, the system will lock out for two minutes after three incorrect tries. Even if he stumbles onto the correct code, the carjacker is still locked out. Unable to restart the vehicle, and with the siren wailing and brake lights flashing, the carjacker has no choice but to speedily abandon the vehicle. You simply walk a block or two to your car, enter your secret code, and the system releases control of the vehicle to you.

Your 4-button/12-channel remote controls

The 4-button/12-channel remote control is an ultra-sophisticated miniature radio transmitter powered by a tiny 12-volt battery. The range is up to 100 feet. Obstructions, electrical interference, weather conditions or a weak battery will reduce the range. Your 4-button/12-channel remote control is the key to your Concept 50. It incorporates Clifford's proprietary Anti-Code-Grabbing™ (ACG) technology with Random Code Generation for the ultimate in protection against "code-grabbing" devices (see page 12). You will use the remote to arm and disarm the system, lock and unlock the doors, activate the system's panic feature, adjust sensor sensitivity, activate the headlights, control Remote QuickAccess features or command options such as remote trunk release, remote memory seat adjustment and even remote starting of the engine and heater or air conditioner, among other available options.

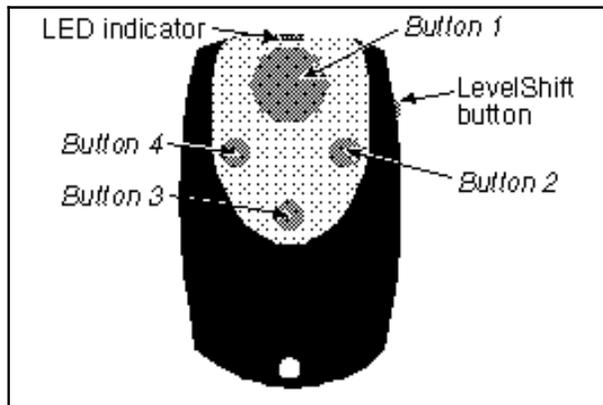
How to use your keychain remote control

Your remote control can individually command up to 12 different system functions and options. It's like having a TV with 12 channels. You change channels (functions) with your keychain remote control. But instead of putting 12 buttons on the remote control, we made it easy: First, the button you use the most — button 1 to

arm, disarm, lock and unlock the doors — is larger than the others. Buttons 2, 3 and 4 are the smaller buttons to the right, below and left of button 1. The LevelShift button on the side permits you to select channels 5–12 with the same four buttons.

- **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 blink 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 desired button *within the next 7 seconds*. For instance, to transmit channel 5, press the LevelShift button once, then press button 1. While you transmit, you'll notice that the LED indicator blinks twice, pauses, blinks twice, etc.: this indicates **level 2**.
- **To transmit channel 9, 10, 11 or 12:** Press the LevelShift button twice. This shifts buttons 1–4 to level 3 (channels 9–12). Then press the corresponding button within the next 7 seconds. For instance, to transmit channel 10, press the LevelShift button twice, then press button 2. While you transmit, you'll notice that the LED blinks three times, pauses, blinks 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

Your Concept 50 remote controls come pre-programmed so that certain channels command certain functions. If you wish, you can actually assign any channel (except 11 and 12) to any function (see pages 19–22). The following chart 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	pop the trunk* (if the system is disarmed) AND turn on the headlights* or close the windows* (if the system is armed)	no	—	2
3	<i>silently</i> arm or disarm	no	—	3
4	activate optional accessory function #1	no	—	4
5	activate optional accessory function #2	yes	once	1
6	activate optional accessory function #3	yes	once	2
7	activate optional accessory function #4	yes	once	3
8	activate optional accessory function #5	yes	once	4
9	turn long-term chirp muting on or off (see <i>QuickAccess</i> on page 16)	yes	twice	1
10	enter or exit valet mode (see <i>QuickAccess</i> on page 16)	yes	twice	2
11	activate optional accessory function #6	yes	twice	3
12	activate optional accessory function #7	yes	twice	4

* *May require additional wiring.*

**TO ARM
THE SYSTEM** Press button 1 (channel 1) once. You will hear two chirps and the parking lights will flash twice. The dashboard LED will flash repeatedly and the car doors will automatically lock.

**TO DISARM
THE SYSTEM** Press button 1 (channel 1) again. One chirp and one flash of the parking lights will confirm disarming. In addition, the car 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..

**TO ACTIVATE
THE PANIC
FEATURE** Press button 1 for 3 seconds. The lights will flash repeatedly and the Medallion Siren will blare for 30 or 60 seconds (user-selectable), or until you press button I again to turn it off.

TO SILENTLY ARM OR DISARM THE SYSTEM Press button 3 (channel 3). Your Concept 50 system will arm or disarm with all the indications noted on the previous page *except* for the chirp acknowledgments.

TO REMOTELY TURN ON THE HEADLIGHTS — OR — REMOTELY CLOSE THE WINDOWS WHILE THE SYSTEM IS ARMED Button 2 (channel 2) controls an interlock that allows you to separately command *two* different options with the same channel: *one when the system is armed and another when it is disarmed*. For instance, if your Concept 50 was so wired, pressing button 2 while the alarm is *armed* will either turn on the head- lights for any duration you wish between 1 second and 2.5 minutes (see the Headlight Timer feature in *User-selectable features* on pages 19–21) **OR** will fully close all the power windows and sunroof on various Jaguar, Mercedes Benz, BMW and Volkswagen vehicles.

TO REMOTELY OPEN THE TRUNK . . . As noted above, button 2 (channel 2) can control yet another option when the system is *disarmed*. The most obvious one is the remote trunk release. If you have this option installed, pressing button 2 while the alarm is *disarmed* will remotely open the trunk.

TO ACTIVATE OTHER OPTIONS REGARDLESS OF ALARM STATE Button 4 (channel 4) and channels 5–8 and 11–12 (see *How to use your keychain remote control* on page 9) can activate other accessories such as the Clifford IntelliStart remote engine starter, remote memory seat activation, SmartWindows II remote window roll-down and venting, a Programmable Receiver that lets you command your electric garage door/gate opener(s), etc.

What about channels 9 & 10? . . . Channels 9 and 10 control the Remote QuickAccess™ features: remote valet mode entry/exit and remote long-term chirp silencing/restoration. See *Remote QuickAccess* on page 16.

How to interpret the chirps and parking light flashes

When you use the remote control, the system responds with chirps (unless the chirp muting feature is turned on) and parking light flashes. These chirp/flash acknowledgments mean:

Chirps and flashes	Meaning
1	Your Concept system is disarmed
2	Your Concept system is armed
2 and then 4	Armed but there is a door open (if there was a 5-sec. delay) or one of the sensors is malfunctioning (if there was a 10-sec. delay) (see <i>Smart AutoTesting</i>)
3	Disarmed and there was an intrusion attempt (see <i>Smart Prior Intrusion Attempt</i>)
4	Armed and there is a trigger malfunction (see <i>Smart AutoTesting</i>)
5	20-seconds to engine shutdown: enter your disarming code IMMEDIATELY

AntiScan™

Thieves can disarm some other brands of car alarms with a “*scanner*” that rapidly transmits one remote control code after another. Clifford’s AntiScan will detect any scanner and block the codes it generates.

Anti-CodeGrabbing™ (ACG) with Random Code Encryption

Protects you and your automobile from the most effective and onerous car stealing device *ever* used by car thieves — a code-grabber. Code-grabbers are far more effective and efficient than scanning (see above). Unlike scanners that sequentially transmit one digital code after another hoping one of them is the correct code to disarm the alarm (a process that may take hours, days or even years depending on the alarm’s number of codes), code-grabbers literally record, from hundreds of feet away, the code sent by your car alarm remote control. A code-grabber will instantly duplicate any remote control code, even if the remote has billions or trillions of codes. The thief simply waits for you to arm your alarm with the remote control and walk away. Then he plays back the code, instantly disarming your car’s alarm and unlocking the doors. It’s like giving the thief your car keys. All non-Clifford alarms can be defeated that easily. In contrast, Concept systems use complex digital signal processing and unbreachable encryption to randomly *change* the digital code every time you use the remote. Your remote will *never* transmit the same code. Thus the code recorded and played back by the thief’s code-grabber will *never* be accepted by your Concept 50. *Only ACG can make a car alarm impervious to code-grabbing, and only Clifford systems have ACG with Random Code Encryption.*

Smart AutoArming™

If this feature is enabled and you forget to remotely arm your Concept 50, it arms itself automatically (“*passively*”) 30 seconds after the doors are closed. For your convenience, if you re-open any door within the 30-sec. countdown, AutoArming restarts from the beginning once all doors are closed. Smart AutoArming includes all these additional features:

- **AutoArming enable/disable:** If you prefer, you may deactivate or reactivate the AutoArming feature. See *User-selectable features* on pages 19–21.
- **Visual acknowledgment:** Five seconds after you exit the vehicle and close all the doors, the parking lights will flash twice to confirm that the AutoArming countdown is progressing. Then, 25 seconds later, the system will AutoArm.
- **User-selectable entry delay:** If you temporarily lose the use of your remote controls, you may turn on the 15-second entry delay feature. This allows you to silently disarm the system by starting the engine within 15 seconds of opening the door. See *User-selectable features* on pages 19–21.
- **AutoArm & Lock:** 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* on pages 19–21.
- **Instant AutoArming bypass:** Prevents AutoArming when fueling the vehicle and 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 single siren chirp to confirm that the system will not AutoArm. The system reverts to its normal operating mode when you next start the engine.

UltraSecure™ valet mode

Within seconds, thieves can disable all other alarm brands by hot-wiring the ignition and flicking an easy-to-find “hidden” valet switch. Concept 50 has safeguards that absolutely ensure that a thief or carjacker cannot enable the valet mode as a way of “turning off” your system. How? To enter valet mode, the driver must first enter the secret disarming code.

Whenever the system is put in valet mode, all of the security and anti-carjacking features are switched 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. **Remember: When your car will be driven by someone else (such as a mechanic) who will not know your disarming code, you must place Concept 50 in valet mode,** otherwise your car will be immobilized.

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

To enable valet mode

1. Turn the ignition switch to its “ON” position or start the engine.
2. Enter your secret disarming code on the PlainView switch, then return the switch to its center position.
3. You now have 3 seconds to flip the switch to the *latched* position (valet mode). Once you have enabled valet mode, the system’s LED will glow continually for on-going visual confirmation of valet mode.

- **Keyless entry in valet mode:** Even if valet mode is enabled, you can still remotely control the convenience features. For instance, simply press button 1 (channel 1) as if you were disarming. The doors will unlock (as indicated by one flash of the parking lights) and the interior lights will illuminate. Press button 1 (channel 1) again and the doors will lock (indicated by two parking light flashes). You can also use the remote control’s other channels to activate options such as a remote trunk release or remote engine starting.

To exit valet mode

1. Turn the ignition switch to its “ON” position or start the engine (you may also perform the following while driving).
2. Flick the switch back to its center position. The LED will turn off to confirm that the system is now in its normal operating mode.

NOTE: You can even enable or exit valet mode with your remote control from outside the vehicle! See the Remote QuickAccess section on page 16.

Dual-sensor protection

Concept 50 system has two sensors: a Glass Tampering Sensor that detects attempts to break any of the vehicle’s windows, and a Dual-Zone Magnetic Resonance Sensor that detects intrusion-related vibrations. What’s more, the secondary, high-sensitivity zone of the Dual-Zone Magnetic Resonance Sensor can detect someone forcefully leaning against your vehicle’s fender and will warn the person off with an unmistakable warning tone (instead of the full siren blast, which is reserved for a *genuine* intrusion attempt).

Remote controlled sensor testing and adjustment

Because of ever-changing conditions, all alarms require periodic fine-tuning of the sensors. In fact, an improperly adjusted sensor is, by far, the biggest cause of false alarms. With other alarm brands, this requires repeated trips back to the dealer. Not so with Concept 50. You can adjust sensitivity without any tools and without even knowing where the sensor is mounted! All you need is your car alarm's remote control. If at any time you find the setting(s) of your system's sensors to be either too sensitive (i.e., it tends to false alarm) or not quite sensitive enough, you may individually test and adjust the sensitivity settings yourself. To adjust the Glass Tampering Sensor or either zone of the Dual-Zone Magnetic Resonance Sensor, just use the following procedure:

1. Insert your car key and turn the ignition switch to its "ON" position, but do not start the engine.
2. Enter your disarming code, then press and hold the switch to its spring-loaded momentary side for about 3 seconds until you hear a siren chirp. You'll also notice that the system's LED is on to indicate that the system is in its programming mode.
4. Toggle the switch in and out of the latched position 3 times (i.e., latched, center, latched, center, latched, center). You will hear a chirp for each latched-center you perform.
5. To select either the sensor and/or zone, perform either a, b or c of this section:
 - a. To test/adjust the primary (normal) sensing zone of the Magnetic Resonance Sensor, tap and release the momentary side of the switch one time.
 - b. To test/adjust the secondary (high) sensing zone of the Magnetic Resonance Sensor, tap and release the momentary side of the switch two times.
 - c. To test/adjust the Glass Tampering Sensor, tap and release the momentary side of the switch three times.
6. Turn the ignition off, exit the vehicle and close the doors.
7. To test the current sensitivity setting:
 - a. Magnetic Resonance Sensor: "Thump" the window pillar with the side of your fist. (For the primary zone, thump somewhat firmly, but not nearly so hard as to dent the window pillar. For the secondary high-sensitivity zone, thump rather lightly). If the sensor registered the thump, you will hear a single siren chirp.
 - b. Glass Tampering Sensor: Firmly tap on the window with a coin (the larger the better). If the sensor registered the tap, you will hear a single chirp.
8. To increase sensitivity, press button 2 on your remote control. To decrease it, press button 4. To confirm the change of setting, each time you increase sensitivity, the siren will chirp in higher and higher pitched tones. Conversely, as you decrease sensitivity, the chirps will have lower and lower pitched tones. Release the button when you hear the chirp. Press and release the appropriate button until the desired sensitivity is reached. There are 16 sensitivity steps for each sensor zone. If you reach the highest or lowest setting, the system will confirm this with two chirps of the siren.
9. Press remote control button 1 when done to exit programming mode (you'll hear a chirp and the LED inside the vehicle will turn off to indicate that the system has exited programming mode). You may now either enter the vehicle to drive it or program another feature, or press button 1 to arm the system.

FACT™— False Alarm Control and Test

With FACT, you'll never experience repeated false alarms. If your Medallion Siren goes off, DO NOT remotely disarm the system while the siren sounds; allow it to run for the full siren duration. Before sounding the siren a second time, the system automatically checks for another activated trigger 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. (To disable FACT, see *User-selectable features* on pages 19–21.)

Smart AutoTesting™

Each time you remotely arm your Concept 50, it will perform a series of tests on all triggers and sensors. If the **hood or trunk** is open when you arm the system, Concept 50 will **immediately** alert you of the problem by issuing **4 chirps** and **4 parking light flashes** instead of the usual 2 and 2. If a **door** is ajar, you will receive the usual 2 chirps and flashes, then, **5 seconds later**, there will be 4 chirps and 4 flashes. (This door ajar warning will not work on vehicles that have factory-delayed courtesy lights).

If one of the **sensors** 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 have the chirp muting feature turned on.*

- **Specific malfunction identification:** The system can also indicate the **specific** trigger or sensor that is malfunctioning. This feature saves you time and money since your installer won't have to spend hours trying to determine where the problem is. If you receive the 4-chirp/4-flash signal upon remote disarming, perform the following to identify the malfunctioning trigger or sensor:

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

Number of LED blinks between pauses	Malfunction
1 blink	Magnetic Resonance Sensor
2 blinks	Glass tampering sensor
3 blinks	Door trigger
4 blinks	Trunk trigger
5 blinks	Hood trigger
6 blinks	Proximity Sensor or other optional sensor

Automatic malfunction bypass

To provide the utmost protection even if a system component malfunctions, your Concept 50 will automatically bypass any faulty point and arm all *other* triggers and sensors until you can have the system serviced by your local Authorized Dealer.

Multiple-event TotalRecall™

The system's non-volatile memory records the identity of the last eight activated or malfunctioning triggers and/or sensors, which allows your installer to instantly track down malfunctions and save you substantial servicing costs. To identify the triggers and/or sensors held in the system's non-volatile memory, simply perform the following procedure:

1. With the ignition OFF, flick the PlainView valet switch to its latched side.
2. Press button I to "arm" the system, then again to "disarm."
3. The LED will blink 1–6 times to indicate the most recently activated trigger or sensor, pause, then blink 1–6 times to indicate the next most recently activated trigger or sensor, and so on for the last 8 activations (beginning with the most recent).
4. Write down the number of blinks between pauses and refer to the chart below:

Number of LED blinks per cycle	Trigger/sensor that was activated or malfunctioned
1 blink	Magnetic Resonance Sensor
2 blinks	Glass tampering sensor
3 blinks	Door trigger
4 blinks	Trunk trigger
5 blinks	Hood trigger
6 blinks	Proximity Sensor or other optional sensor

Headlight reminder

If you turn the ignition off and open the driver's door to exit the car without having turned off the headlights, you will be reminded to turn them off with a distinctive warning tone. If your vehicle already has a similar warning feature, you may turn off your Concept 50's Headlight Reminder. See the *User-selectable features* section on pages 19–21.

Remote QuickAccess™

For the greatest ease of use, the Remote QuickAccess features permit you a quick and easy way of controlling, with just the remote, the most commonly used features. You can control either of these features any time via your remote control. Here's how:

- **QuickAccess Valet Mode:** To enter valet mode remotely, transmit channel 10 (press the LevelShift button on the side of the remote control twice, then press button 2). The parking lights will flash twice and the dashboard LED will stay on to indicate the system is in valet mode. To exit valet mode remotely, transmit channel 10 again and the system will exit of valet mode with one parking light flash and the LED will turn off. (NOTE: If you enter valet mode via the remote control, exit valet mode in the same manner. If you use the PlainView switch to enter valet mode, use the switch to exit valet mode.)
- **QuickAccess Long-Term Chirp Silencing:** To silence the chirps, transmit channel 9 (press the LevelShift button on the side of the remote control twice, then press button 1). The parking lights will flash twice to indicate that long-term chirp silencing is on. To restore the chirps, transmit channel 9 again and the system will confirm restoration of the chirps with one flash of the parking lights.

Smart prior intrusion attempt alert

When you remotely disarm, if you hear three chirps and see three parking light flashes (instead of the usual one and one) it means that a trigger or sensor was activated in your absence. When you enter the vehicle and turn on the ignition (or start the engine), the LED will blink several times, pause, then repeat the blink cycle 4 more times. Count the number of blinks in one cycle and refer to the chart below:

Number of LED blinks per cycle	Trigger/sensor that detected the intrusion attempt
1 blink	Magnetic Resonance Sensor
2 blinks	Glass tampering sensor
3 blinks	Door trigger
4 blinks	Trunk trigger
5 blinks	Hood trigger
6 blinks	Proximity Sensor or other optional sensor

SmartPowerUp™ II

If power to the system control unit is ever removed, SmartPowerUp II ensures that the system will automatically restore itself to its previous status when power is restored. So if a thief tampers with the vehicle battery in an attempt to steal your car, the system will automatically re-arm itself and immediately sound the siren. However, if your vehicle is to be serviced by a mechanic, just put the system in valet mode. If the mechanic needs to interrupt vehicle power, your system will automatically return to its valet mode state when power is restored; there will be no alarm activation and no need to provide your mechanic with your remote control and instructions on how to use it.

AutoLock/AutoUnLock™

For your safety and that of your passengers, the system automatically locks the doors when you begin driving, and unlocks them when you turn off the ignition. If you prefer, you may turn off the AutoLock/AutoUnLock feature. See the *User-selectable features* section on pages 19–21.

Tamper-proof ignition immobilization

While armed, your Concept 50 system assures that your vehicle is completely immobilized by automatically locking out the ignition and/or fuel systems. That means that a thief won't be able to start your vehicle's engine even if he had a duplicate of your car key. What's more, even if he were to find the system control unit and tear it out of your vehicle, he *still* won't be able to start your car's engine! That's Clifford security you can count on.

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 (i.e., valet mode is off)
On	Valet mode is on, the vehicle can be driven or serviced without having to disarm
Flashing (ignition off)	System is armed and protecting your vehicle
Flashing (ignition on)	Anti-carjacking feature was activated — 20-second countdown to engine shutdown: Enter your disarming code IMMEDIATELY
Pause between flashes	Either a malfunction (see page 15) or an intrusion was attempted (see page 17)

High-output Medallion™ Siren

All the electronics for the system’s siren are built into your Concept 50’s main control unit, rather than the siren itself. This protects the circuitry from engine heat, dirt and exposure to the elements (in contrast, the electronics of other alarm companies’ sirens are part of the siren itself and, therefore, far more susceptible to failure). In addition to greatly enhancing long-term reliability, your Concept 50 also provides these additional features:

- **Personalized Siren Sounds:** Most alarm sirens have a single “warble” tone. A few offer “six-tone” sirens that either cannot be adjusted or require the physical destruction of certain circuit wires in order to change the sounds (the change is permanent and cannot be changed again). Your Concept 50 Medallion Siren circuitry is different. As shipped from the factory, the siren sounds six different alarm sound patterns. However, you may turn any of the six different alarm sound patterns on or off to create a different combination of sound patterns. In all, there are 64 different combinations you may select. You may set your own Personalized Siren Sounds 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* on pages 19–21.
- **QuietChirps™:** You can control the volume of the normal arm/disarm chirps. As shipped from the factory, your system issues full-volume chirp acknowledgments. If you prefer, you may reduce the chirp volume to a level that is clearly audible, yet less obtrusive. See the *User-selectable features* section on pages 19–21.
- **Long-term chirp silencing:** Whenever you wish, you may silence your Concept 50’s arm/disarm chirps until you decide to restore them. The parking light flashes will continue to provide visual confirmation of remote controlled arming and disarming. See *User-selectable features* on pages 19–21, also see the *Remote QuickAccess features* on page 16.
- **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 *User-selectable features* section on pages 19–21.

User-selectable features

Your Concept 50 allows you to set many of its features to your own personal preferences. Although the system's programming capabilities are very extensive, we have made the programming procedures very simple: to make a change, you just flick the PlainView switch a few times. Once you've changed a few settings, you'll find that programming Concept 50 is so easy, you can even do it while driving! The system comes with all of its features pre-programmed as noted by the bold type in the *Matrix of user-selectable features* on the following page. To change any of the settings, use the steps noted below. To restore the feature to its factory setting, just repeat the procedure:

1. Refer to the *Matrix of user-selectable features* and make note of the column number and row number of the feature(s) you wish to program.
2. Insert your **ignition** key and turn it to the "**ON**" position, or start the engine (skip this step if the engine is already running).
3. **Enter your disarming code**, then **press and hold** the PlainView switch to its spring-loaded **momentary side** for about 3 seconds until you hear a siren chirp. You'll also notice that the system LED turns on to indicate that the system is in its programming mode. The system is now in the "**Feature Select**" position: the top left cell of the matrix. From this position, you will first select the feature column (from left to right), then the feature row (from top to bottom).
4. **Select the feature column:** To select the column you wish, **toggle** the switch in and out of the **latched position** the same number of times as the column number of the selected feature (NOTE: each latched-to-center motion is counted as one). After a one-second pause, you will hear the same number of chirps as the column number you have selected, audibly confirming your selection.
5. **Select the feature row:** To select the feature's row, immediately tap and release the momentary side of the switch the same number of times as the feature's row number. You will hear a single chirp confirmation each time you press the momentary side to help you count.
 - a. **VERY IMPORTANT:** If there is a **NOTE** number listed in the selected feature of the matrix, perform the actions listed for that note. Once you have completed the **NOTE** instructions, skip step 6 below and go to step 7.
6. After a one-second pause you will hear either one chirp to indicate that the feature you selected is now turned off, or two chirps to indicate that the feature is now on (on the siren duration feature, one chirp = 30 seconds, two = 60 seconds).
7. You have now completed the programming of the desired featured. You may select another feature, or you may exit program mode:
 - a. To program another feature in that same column, you must repeat step 5 within the next 3 seconds (if longer than 3 seconds, you will hear three chirps to indicate that you are now in the "**Feature Select**" position).
 - b. To select a different feature column, go to step 4.
 - c. To exit program mode, turn the ignition off (you'll hear 3 chirps and the LED will turn off to indicate exit of program mode). If driving, just wait for 30 seconds and the system will automatically exit programming mode by itself (indicated by 3 chirps and extinguishing of the LED).

The above may sound complicated, but it really isn't. There is just a lot of explanation involved with each step. Briefly, here is all you do: Choose the feature you want to change, enter program mode, select the feature's column and row, then turn off the ignition. *That's it!* Try the examples on page 22 to see just how easy it really is.

Matrix of user-selectable features

Feature Select	Column 1 1st latched	Column 2 2nd latched	Column 3 3rd latched	Column 4 4th latched	Column 5 5th latched	Column 6 6th latched
Row 1 <i>1st momentary</i>	Sound 1: on/off <i>info on page 18</i>	Add new remote to channel 1 (arm/disarm) <i>info on page 9–10 & 23</i> NOTE 1	Test/adjust primary (normal) zone of vibration sensor <i>info on pages 13–14</i> NOTE 7	QuietChirps: on/off <i>info on page 18</i>	Anti-carjacking: on/off <i>info on page 7–8</i>	Headlight timer: 1sec–2.5min (30sec) <i>info on pages 11 & 17</i> NOTE 13
Row 2 <i>2nd momentary</i>	Sound 2: on/off <i>info on page 18</i>	Add new remote to channel 2 (trunk/timer) <i>info on page 9–10 & 23</i> NOTE 2	Test/adjust secondary (high) zone of vibration sensor <i>info on pages 13–14</i> NOTE 8	Long-term chirp silencing: on/off <i>info on page 18</i>	Remote control button/channel sequence for anti-carjacking <i>info on page 8</i> NOTE 10	RPM monitoring: on/off
Row 3 <i>3rd momentary</i>	Sound 3: on/off <i>info on page 18</i>	Add new remote to channel 3 (silent arm/disarm) <i>info on page 9–10 & 23</i> NOTE 3	Test/adjust glass tampering sensor <i>info on pages 13–14</i> NOTE 9	15-second entry delay: on/off <i>info on page 12</i>	Add a dedicated anti-carjacking remote control <i>info on page 8</i> NOTE 11	Factory-delayed courtesy lights: on/off
Row 4 <i>4th momentary</i>	Sound 4: on/off <i>info on page 18</i>	Add new remote to channel 4 (accessory 1) <i>info on page 9–10 & 23</i> NOTE 4	Pulsed/constant ground output upon panic	AutoLock/UnLock: on/off <i>info on page 17</i>	Set idle RPM	Channel 4 output: pulsed/latched/timed
Row 5 <i>5th momentary</i>	Sound 5: on/off <i>info on page 18</i>	Add new remote to channel 5 (accessory 2) <i>info on page 9–10 & 23</i> NOTE 5	Headlight Reminder: on/off <i>info on page 16</i>	Smart AutoArming: on/off <i>info on page 12</i>	Siren duration: 30/60 sec. <i>info on page 18</i>	Channel 5 output: pulsed/latched/timed
Row 6 <i>6th momentary</i>	Sound 6: on/off <i>info on page 18</i>	Erase all channels <i>info on page 9–10 & 23</i> NOTE 6	FACT: on/off <i>info on page 15</i>	AutoArm & Lock: on/off <i>info on page 12</i>	Set a new secret disarming/valet code <i>info on pages 7–8 & 13</i> NOTE 12	QuickAccess valet mode: on/off <i>info on page 16</i>

Gray cells indicate features that require programming by trained Clifford installers. DO NOT change any of these settings.

★ **WARNING:** *If you have remote window and sunroof closure, DO NOT CHANGE THIS SETTING; it requires installer-only adjustment. Changing the duration may cause damage.*

- **NOTE 1:** Transmit channel 1 (or other channel of your choosing) of the new remote control. You will hear two chirps to indicate that the code has been accepted and recorded.
- **NOTE 2:** Transmit channel 2 (or other channel of your choosing) of the new remote control. You will hear two chirps to indicate that the code has been accepted and recorded.
- **NOTE 3:** Transmit channel 3 (or other channel of your choosing) of the new remote control. You will hear two chirps to indicate that the code has been accepted and recorded.
- **NOTE 4:** Transmit channel 4 (or other channel of your choosing) of the new remote control. You will hear two chirps to indicate that the code has been accepted and recorded.
- **NOTE 5:** Transmit channel 5 (or other channel of your choosing) of the new remote control. You will hear two chirps to indicate that the code has been accepted and recorded.
- **NOTE 6:** When you hear the two chirps, all remote control codes will have been erased from system memory. You must now add the new and/or existing remote controls to the system (i.e., program channels 1–5 of each remote that will be used with your Concept 50).
- **NOTE 7:** Turn off the ignition, exit the vehicle (taking the keys with you) and close the doors. Firmly “thump” the window pillar with the side of your fist. You should hear a chirp to confirm activation of the sensor’s main zone. Use remote control button 2 to increase sensitivity, button 4 to decrease. Repeat until the sensor is set to the sensitivity you wish, then press remote control button 1 to end programming mode.
- **NOTE 8:** Use the same procedure as NOTE 7, but strike the window pillar lightly.
- **NOTE 9:** Use the same procedure as NOTE 7, but firmly tap a coin (such as a quarter) against the window to test sensitivity.
- **NOTE 10:** Transmit the first channel of your choice (any channel from 1–12). You will hear a one-chirp confirmation. Transmit the second channel of your choice (again, any channel you wish from 1–12). You will hear a two-chirp confirmation. You may now use this combination to turn off the 20-second anti-carjacking countdown.
- **NOTE 11:** Transmit the channel of your choice on the dedicated anti-carjacking remote control. You will hear two chirps to indicate that that remote control button will now turn off the 20-second anti-carjacking countdown. Be sure to carry this remote on your person, since a carjacker will undoubtedly take your usual remote control and purse.
- **NOTE 12: Immediately flip the switch to its latched position**, then enter the new code that you wish to use. Make sure to return the switch to its center position when complete, then wait 3 seconds (you will hear two chirps when the system has accepted the new code). Turn the ignition off. **VERY IMPORTANT: You must immediately test your new secret disarming/valet code:** Turn the ignition on, enter your new code, then flip the switch to its latched position. The LED will illuminate. If it does not, the new code you programmed and the one you just entered do not match. **The system has reverted to the previous code.**
- **NOTE 13:** The timer starts as soon as you enable this feature (6 latches, 1 momentary). When the duration you wish has been reached, press button 1 on the remote control. You will hear two chirps to confirm the new duration.

EXAMPLE 1: Turn off siren sound number 2:

1. Look for the siren's sound number 2 location on the Matrix.
2. The location is at the intersection of column 1 and row 2. Note the column and row numbers.
3. With the ignition on, enter your disarming code on the PlainView valet switch, then hold the switch in its momentary position until you hear a chirp and see the LED turn on.
4. Select feature column 1 by pressing the switch to its latched position, then back to center. After a brief pause, you'll hear 1 chirp to indicate column 1.
5. Press and release the momentary side twice. You'll hear a total of two chirps to indicate that you selected the feature in row 2 of that column.
6. After a brief pause, you'll hear a single chirp to indicate that sound #2 is now off.
7. Turn the ignition off (you'll hear 3 chirps) and you're done!

If you wish to turn siren sound 2 back on, simply repeat steps 1–7.

EXAMPLE 2: Turn off siren sound numbers 4 and 6, then turn on QuietChirps:

This time, we will change the settings of three different features. This time, you'll *hear* the appropriate chirp confirmations, but we won't make note of them in the instructions below:

1. Enter program mode (step 3 above).
2. Latched, center to select column 1.
3. Four momentaries, (wait for the one-chirp "feature off" confirmation), then 6 momentaries to jump to row number 6.
4. Four latched-center presses to select column 4.
5. One momentary, (wait for the two-chirp "feature on" confirmation), then turn the ignition off and you're done.

You just changed the settings of *three* different features. It's so easy, you could even do it while driving. To set all three features back to their factory settings, just repeat steps 1-5.

Adding new remote controls

For other drivers in your family or if you wish to control Concept systems on your other cars with the same remote control, you can buy additional remote controls from *any* Authorized Clifford Dealer (or call our 24-hour Customer Service Department at 800-824-3208) and program them into the system yourself. Each Concept 50 will respond to as many as four 12-channel remote controls. To add a new remote control to the system, use the procedures noted in the *User-selectable features* section on pages 19–21.

How to erase the codes of lost or stolen remote controls

If one of your remote controls is ever lost or stolen, you can erase its digital codes from the system memory to make sure that the missing remote control can never be used to disarm your system. To do so, use the "Erase all channels" feature (feature column 2, row 6 on the *Matrix of user-selectable features* on pages 20–21). This will clear all remote control codes from the system memory. Then simply program each remaining and/or replacement remote control as noted in the *Adding new remote controls* section above.