Standard Features of the IntelliGuard 800

☑ **$3,000 AntiTheft Guarantee** — Pays up to S3,000 if the vehicle is stolen and not recovered (see the guarantee card for details.)

☑ **Limited Lifetime Warranty** — The system control unit and remote controls are covered for as long as your customer owns the vehicle (see the warranty card for details).

☑ **FACT™ — False Alarm Control and Test** — Absolutely, positively eliminates recurring false alarms (user-selectable).

☑ **A Pair of 4-Button/12-Channel Remote Controls** — Fingertip command of the IntelliGuard 800 from 100 feet away (up to 300 feet with the optional ElectroLoop Antenna).

☑ **AntiScan™** — Blocks digital code scanners from disarming the system.

☑ **Proprietary Anti-CodeGrabbing™ (ACG) with Random Code Encryption** — Unlike other companies' remote controls, the IntelliGuard remote controls never transmit the same code twice. The random codes transmitted by the IntelliGuard remote control makes thieves remote control "code-grabbers" completely useless.

☑ **Multiple-Car Control** — The vehicle owner can interface the 12-channel remote control with IntelliGuard Series systems on up to seven of his other vehicle(s) (user-selectable)

☑ **Patented Remote Control Code Learning and MultiRemote™ Recognition** — Add or delete, with just a touch of a switch, up to 4 different Clifford 12-channel Anti-CodeGrabbing remote controls (user-selectable).

☑ **Patent-Pending UltraSecure Coded Valet Mode** — Ensures no thief or carjacker can turn off the IntelliGuard 800 system like they can all other brands of alarms. User control is much easier since there is no need to "hide" the valet switch. Zero crimp connections allow you to easily mate the prewired connectors.

☑ **On-Board User-Programmable Electronic Timer** — User-adjustable to any duration between 1 second and 2.5 minutes. Can be used for remote headlight activation or any other application that needs the use of a variable timer.

☑ **Remote Window and Sunroof Closure Capability** — On several models of BMW, Volkswagen and Jaguar, IntelliGuard 800's integrated timer may be used to remotely close all the power windows and sunroof without the need for any optional modules.

☑ **QuietChirps™** — Soft or full volume arm/disarm chirp confirmations (user-selectable).

☑ **Remotely Adjustable Dual-Zone Proximity Sensor™** — Issues a distinct warning tone if someone lingers near the vehicle, but anyone reaching into the passenger compartment will instantly and fully trip the system. Zero crimp connections allow for easy and reliable installation.

☑ **Remote Sensor Adjustment** — Incredibly easy and accurate sensor adjustment and testing with the remote control!
　☑ **32-Step Incremental Sensitivity Adjustment** — For the utmost in fine-tuning flexibility and accuracy of the Proximity Sensor's inner zone, and a 16-step range for the less-critical perimeter zone.
　☑ **Tonal Confirmation of Sensor Adjustment** — Higher and higher pitched tones confirm each remote sensitivity increase; lower and lower tones confirm decreases. Minimum and maximum settings are confirmed with two chirps.
　☑ **Adjust and Test Unobtrusively** — No repeated arming and disarming, and no siren wailing. IntelliGuard Series systems let you set and test sensitivity without activating the alarm!

☑ **Remote QuickAccess™** — Another great Clifford exclusive:
　☑ **Remote Controlled Valet Mode** — Allows the owner to enable or disable valet mode from up to 100 feet away! The parking lights and the LED visually confirm valet mode entry and exit.
　☑ **Remote Sensor Override** — One press overrides the sensor's perimeter (warning) zone when parking in an area with heavy pedestrian traffic. A second press turns off *both* sensor zones. It's perfect when the owner must leave a child or pet in the car.
　☑ **Remote Adjustment of Primary Sensing Zone** — The owner can easily and interactively adjust and test sensitivity via the remote control. IntelliGuard 800 provides clear but unobtrusive audible feedback. This innovative breakthrough gives the owner unprecedented system control any time, any place and in all types of environments.
　☑ **Remote Adjustment of Perimeter Sensing Zone** — Same as above for the sensor's warning zone.

☑ **User-Programmable MultiSound Medallion™ Siren** — Designed and built by Clifford Electronics, the MultiSound Medallion Siren is far superior in performance, features, reliability and even aesthetics to all other look-alike, sound-alike generic sirens used by all other alarm companies.
　☑ **Personalized Siren Sounds™** — The user may select any combination of up to 64 different siren sound patterns.
　☑ **Ultra-Reliability** — All electronics of the MultiSound Medallion Siren are built into the system control unit, sheltering the siren electronics from the harsh underhood environment.
　☑ **30/60 Second Siren Duration (user-selectable).**
　☑ **Patented Automatic Noise Abatement** — Automatically limits siren sounding to no more than 5 minutes.

☑ **Smart Trunk Release Capability** — An electronic interlock ensures that the optional remote trunk release can be activated only when the system is disarmed.

☑ **Built-In Parking Light Flasher with an On-Board Relay** — Visually confirm alarm and doorlock status from a distance.

☑ **Remote Courtesy Lighting with an On-Board Relay** — Automatically turns on the vehicle's interior light(s) when remotely disarmed and keeps them on for 30 seconds or until the engine is started.

☑ **Dual-Mode Chirp Silencing** — Both long-term chirp silencing or remote controlled chirp muting (user-selectable).

☑ **On-Board Door Lock/Unlock Relays** — No external relays to wire and mount. The IntelliGuard 800 directly interfaces with all the most common types of power doorlocks.

☑ **AutoLock**™ — Automatically locks the doors when the ignition is turned on.

☑ **AutoUnLock** — Automatically unlocks the doors when the ignition is turned off (user-selectable).

☑ **Deluxe Remote Keyless Entry in Valet Mode** — Allows for remote controlled door locking/unlocking with visual parking light confirmations and interior light illumination even while the IntelliGuard 800 is in its UltraSecure Valet Mode.

☑ **Immobilizer Output** — Just add an optional relay to assure that the vehicle's ignition or fuel system is electronically disconnected while the IntelliGuard 800 is armed.

☑ **Extended Range Capability** — Add an optional ElectroLoop Antenna to triple remote control range to as much as 300 feet!

☑ **Patented Smart AutoTesting**™ — Automatically tests all system sensors and triggers, and specifically identifies any malfunction, virtually eliminating costly trouble-shooting time.

☑ **Patented Malfunction AutoBypass**™ — Automatically bypasses any trigger or sensor malfunction.

☑ **Multiple-Event TotalRecall**™ — For quick and accurate diagnostics, non-volatile memory stores the identities of the last eight triggers and/or sensors activated. This provides an invaluable informational and diagnostic means.

☑ **Patented Smart Prior Intrusion Attempt Alert** — Specifically identifies the sensor or trigger activated in an attempted intrusion.

☑ **Enhanced AutoArming**™ — Automatically (passively) arms itself if the owner forgets.
　☑ **AutoArming Enable/Disable** — Allows the owner to enable or disable AutoArming any time.
　☑ **AutoArm & Lock** — Select whether or not the doors will lock when the system AutoArms (user-selectable).
　☑ **User-Selectable 15-Second Entry Delay** — Only upon passive arming, and only if the owner so chooses.
　☑ **Visual Confirmation** — Parking lights visually confirm initiation of the AutoArming countdown.
　☑ **Instant AutoArming Bypass**™ — With just a quick turn of the ignition switch, temporarily turn off AutoArming until you park the car again.

☑ **Full-Time Remote Panic Feature** — Lets the owner remotely activate the siren and parking lights from inside or outside the vehicle, or even while driving.

☑ **Selectable Pulsed/Constant Panic Output** — Ideal for air horns, interior siren, pager and/or other accessories.

☑ **Channel 2, Channel 4 and Channel 5 with Selectable Output Types** — For remote control of multiple accessories. You can change the channel 4 and/or 5 output from its pulsed operation (factory preset) to your choice of latched or timed. Setting an output for latched operation, for instance, permits activation of the vehicle's audio system or neon undercarriage lighting. Timed outputs can control lights, power window/sunroof closure and hydraulics.

☑ **Fault-Proof**™ **Starter Interrupt** — Prewired to prevent an intruder from starting the engine while the system is armed, but allows the owner to start it even in the unlikely event of a full system failure.

☑ **Installer-Selectable High/Low Circuitry** — If the vehicle has delayed courtesy lighting, you won't have to go through any special testing or connections. A few flicks of the PlainView switch sets the IntelliGuard 800 to adjust itself to read the door input when the interior light turns off.

☑ **High-Luminescence LED Indicator** — Adds visual deterrence, visually confirms system status, and identifies trigger/sensor faults and trips. Zero crimp connections, just mate the prewired connectors.

☑ **Multiple Trigger/Sensor Inputs** — For precise identification of the exact trigger or sensor tripped in a prior intrusion attempt.

☑ **Patented SmartPowerUp**™ — Eliminates excessive noise in the installation bay.

2

Sequence of Installation

1. **Passenger Compartment**
   a) Select a suitable location to mount the *control unit*.
   b) Wire the *starter interrupt relay*, *ignition input*, and *optional ignition immobilizer relay*.
   c) Mount and connect the *LED* indicator.
   d) Wire the *door trigger* and *interior light supply*.
   e) Wire the *door locks*.
   f) Mount and connect the *PlainView Valet Switch*.
   g) Mount and connect the *Electronically Programmable Dual-Zone Proximity Sensor*.
   h) Wire the *channel 2, channel 4 and channel 5 outputs*.
   i) Wire the *trunk trigger* and, if needed, mount a pin switch.
   j) Wire the *parking lights*.
   k) Mount and wire optional passenger compartment *accessories*.
2. **Engine Compartment**
   a) Select locations to mount the *siren* and *hood pin switch*.
   b) Route and connect wires to each component using crimp connectors or solder and shrink tube.
3. Make **final** wiring **connections** at the battery, turn the **ignition on**, *then* **plug in** the control unit connectors.
4. **Test** the system.
5. Adjust the **sensor**.
6. Power and test **accessories**.
7. Secure the control unit and wiring.

Passenger Compartment Components

Control Unit
1. Install the control unit in the passenger compartment, **not** in the engine compartment.
2. Identify where the control unit will be installed. Route wires from this point, leaving slack in the wiring for ease of service. **Do not** plug the connector into the control unit all wiring is complete.
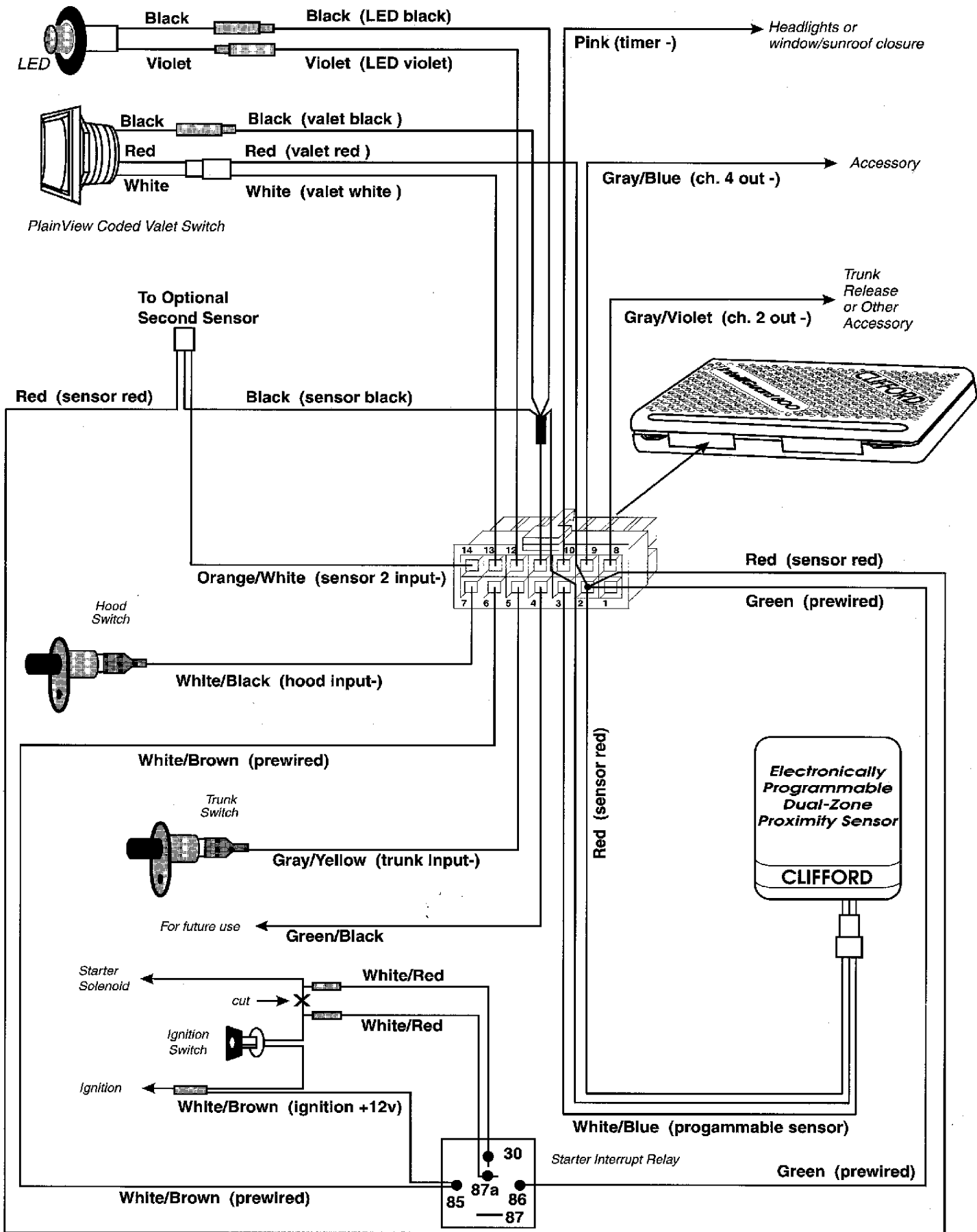
Antenna
The short gray wire with an F-connector is the antenna. Its position and location will effect remote control range. For maximum range, use the optional ElectroLoop Antenna. To achieve maximum range with the standard antenna:
1. Do not shorten or lengthen the antenna wire.
2. Point the antenna wire away from the control unit.
3. Avoid positioning the antenna wire parallel to any wiring harness.
4. Keep the antenna and control unit as far as possible from metal.
5. The antenna is best positioned perpendicular to the largest metallic surface near the control unit.

Wireloom
All Clifford systems are designed to be wired FROM the control unit TO each component. Route power and ground connections directly to the vehicle battery. Power and test the control unit before any optional accessories. DO NOT yet plug in the control unit connector. Using the supplied tie wraps, separate the wires into the following groups:
1. For engine compartment connections: RED, RED/WHITE, BLACK, WHITE/BLACK and BLACK TWIN-LEAD (and YELLOW if adding air horns). Sleeve these wires in vinyl tubing and pass them through an existing grommet into the engine compartment. If a new opening must be drilled, add a rubber grommet to prevent shorts and fire hazards.
2. For the door locks: GRAY/GREEN, WHITE/ORANGE, RED/ORANGE, RED/GREEN, WHITE/GREEN and GRAY/ORANGE.
3. For the sensor: the WHITE/BLUE, RED and BLACK wires that terminate in a 3-pin connector. If installing a second sensor, group the ORANGE/WHITE, RED and BLACK wires that terminate in a 3-pin connector.
4. For the LED: the BLACK and VIOLET wires that each terminate in a 1-pin connector.
5. For the PlainView switch: the RED and WHITE wires that terminate in a 2-pin connector and the BLACK wire that terminates in a 1-pin connector.

LED

Black Black (LED black)

Violet Violet (LED violet)

Pink (timer -) → Headlights or window/sunroof closure

Black Black (valet black)

Red Red (valet red)

White White (valet white)

PlainView Coded Valet Switch

Gray/Blue (ch. 4 out -) → Accessory

To Optional
Second Sensor

Gray/Violet (ch. 2 out -) → Trunk Release or Other Accessory

Red (sensor red) Black (sensor black)

14 13 12 11 10 9 8
7 6 5 4 3 2 1

Orange/White (sensor 2 input-)

Red (sensor red)

Hood
Switch

Green (prewired)

White/Black (hood input-)

White/Brown (prewired)

Trunk
Switch

Red (sensor red)

Gray/Yellow (trunk input-)

For future use ◄ Green/Black

Electronically
Programmable
Dual-Zone
Proximity Sensor

CLIFFORD

Starter
Solenoid

White/Red

cut → ✕

Ignition
Switch

White/Red

Ignition

White/Brown (ignition +12v)

White/Blue (progammable sensor)

Green (prewired)

30
87a
85   86
87

Starter Interrupt Relay

White/Brown (prewired)

Wiring Description for the 14-Pin Connector

Pin	Color	Connects to	Page
1	Green	Prewired to the starter interrupt relay	5
2	Red	Prewired to the PlainView Switch and sensor connectors	7
3	White/Blue	Prewired to the sensor 1 connector	7
4	Green/Black	Reserved for future use	—
5	Gray/Yellow	Trunk pin switch	8
6	White/Brown	Prewired to the starter interrupt relay	5
7	White/Black	Hood pin switch	8
8	Gray/Violet	Optional trunk release or other channel 2 accessory	7
9	Gray/Blue	Channel 4 accessory	8
10	Pink	Headlight relay or other channel 2 timed accessory	7–8
11	Black	Prewired to the PlainView Switch, LED and sensor connectors	5–7
12	Violet	Prewired to the LED connector	5
13	White	Prewired to the LED connector	7
14	Orange/White	Prewired to the sensor 2 connector	4

Starter Interrupt Relay

The starter interrupt relay is wired in-line with the vehicle's starter circuit. When a theft attempt occurs, the relay opens the starter circuit and prevents the vehicle from starting.

> NOTE: The starter circuit may have very high current. Be certain that both WHITE/RED wires are solidly connected. For maximum dependability, solder and shrink tube the relay's WHITE/RED connections.

1. Locate the ignition switch wireloom under the dash.
2. Use a voltmeter to locate the **one** wire that carries +12V during the **cranking cycle ONLY**. This is the starter wire.
3. Cut the starter wire, then try to start the engine. If the starter does not crank, you have found the correct wire.
4. Make the connections shown on page 4.

Ignition Input

1. Use a voltmeter to locate the **one** wire that carries +12V throughout **BOTH the cranking AND engine running cycles**, and 0 volt when the ignition is off.
2. Connect the WHITE/BROWN wire to the ignition wire as shown on page 4.

Optional Ignition Immobilizer Relay

1. Run a lead off the 14-pin connector's WHITE/BROWN wire (pin 6) after the connection you made in the section above and connect it to terminal 85 of the optional relay.
2. Cut the ignition line you identified in the section above.
3. Make the connections shown in the diagram on page 6.
4. Be sure to bridge terminals 30 and 85.

LED Status Indicator

Select a prominent location on the dash or console visible from the passenger and driver windows. Discuss placement with the owner. The LED is off when the system is disarmed, flashes when armed, and glows in program and valet modes.
1. Verify there is adequate space to accommodate the LED, then drill a 5/16" hole and route the wires through it.
2. Mate the LED connectors to the same wire color connectors on the wireloom.
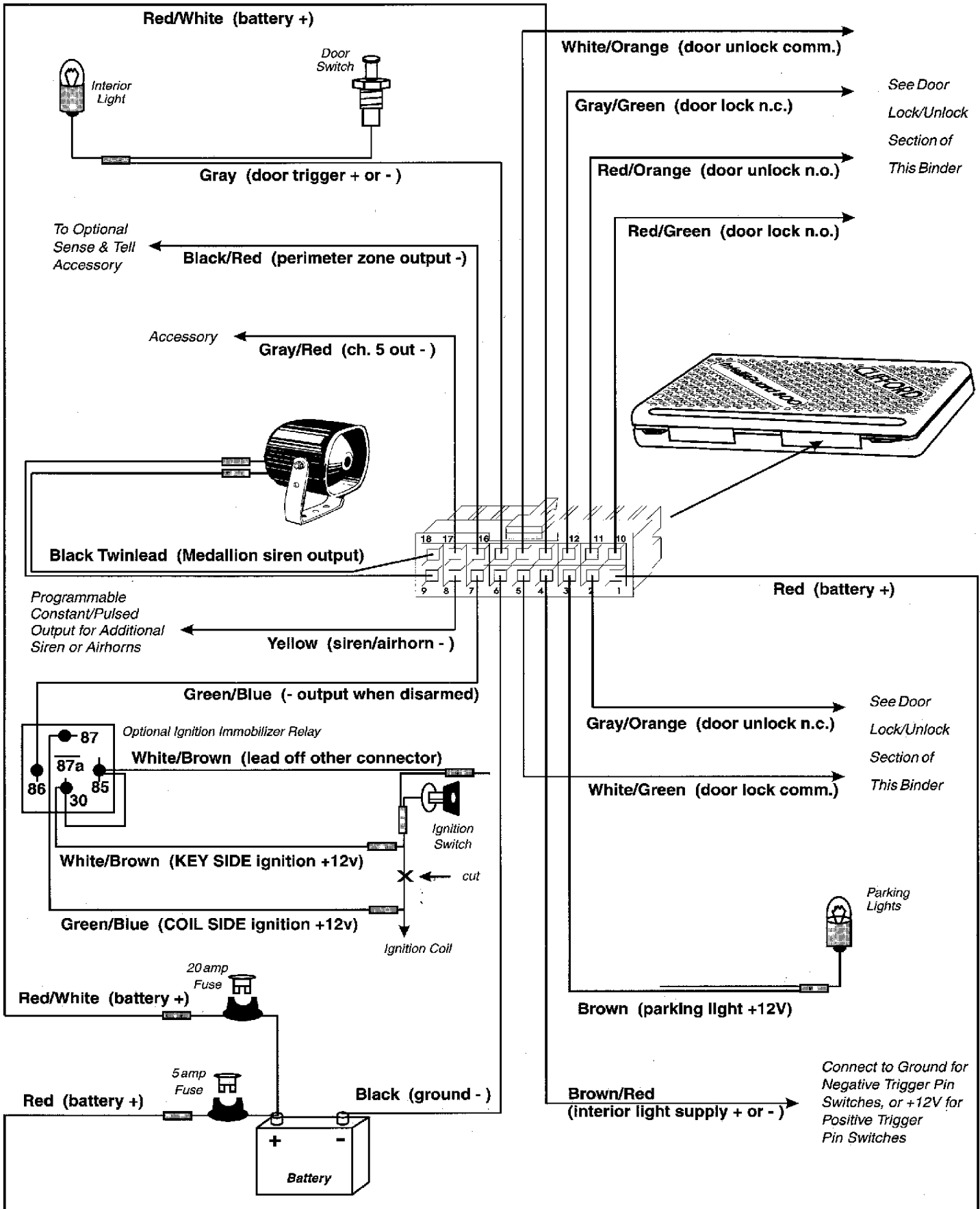
Door Trigger

Please refer to the **Door Trigger section** in this binder for information on polarity testing and connections.

Interior Light Supply

If the door trigger polarity is negative, connect the BROWN/RED interior courtesy light supply wire to ground; if door trigger polarity is positive, connect it to +12V.

Door Locking/Unlocking

Please refer to the **Door Lock section** in this binder for information on the various circuit types and connections.

Red/White (battery +)

Interior Light

Door Switch

Gray (door trigger + or -)

White/Orange (door unlock comm.)

Gray/Green (door lock n.c.)

See Door Lock/Unlock Section of This Binder

Red/Orange (door unlock n.o.)

Red/Green (door lock n.o.)

To Optional Sense & Tell Accessory

Black/Red (perimeter zone output -)

Accessory

Gray/Red (ch. 5 out -)

Black Twinlead (Medallion siren output)

18 17 16 12 11 10
9 8 7 6 5 4 3 2 1

Red (battery +)

Programmable Constant/Pulsed Output for Additional Siren or Airhorns

Yellow (siren/airhorn -)

Green/Blue (- output when disarmed)

Optional Ignition Immobilizer Relay

87
87a
86 85
30

White/Brown (lead off other connector)

Ignition Switch

White/Brown (KEY SIDE ignition +12v)

X ← cut

Green/Blue (COIL SIDE ignition +12v)

Ignition Coil

Gray/Orange (door unlock n.c.)

See Door Lock/Unlock Section of This Binder

White/Green (door lock comm.)

Parking Lights

20 amp Fuse

Red/White (battery +)

5 amp Fuse

Red (battery +)

Black (ground -)

+ -
Battery

Brown (parking light +12V)

Brown/Red (interior light supply + or -)

Connect to Ground for Negative Trigger Pin Switches, or +12V for Positive Trigger Pin Switches

Wiring Description for the 18-Pin Connector

Pin	Color	Connects to	Page
1	Red	Battery positive (5-amp)	9
2	Gray/Orange	Door unlock normally closed	5
3	Brown	Parking lights	8
4	Brown/Red	Ground for negative door trigger; +12V for positive trigger	5
5	White/Green	Door lock common	5
6	Black	Battery negative	9
7	Green/Blue	Optional ignition immobilizer relay	5
8	Yellow	Optional air horns or secondary siren	6
9	Black Twin-Lead	Medallion siren	8
10	Red/Green	Door lock normally open	5
11	Red/Orange	door unlock normally open	5
12	Gray/Green	Door lock normally closed	5
13	Red/White	Battery positive (20-amp)	9
14	White/Orange	Door unlock common	5
15	Gray	Door trigger (+ or -)	5
16	Black/Red	Optional VoiceLink accessory	6
17	Gray/Red	Channel 5 accessory	8
18	Black Twin-Lead	Medallion siren	8

PlainView Coded Valet Switch

The valet switch is the weakest link of all other manufacturers' alarms since, just by hotwiring the ignition and flicking the switch, the thief will disarm the alarm and steal the car. The PlainView Coded Valet Switch offers absolute protection while at the same time is substantially more user-friendly and easier to access. Since IntelliGuard 800 has a *coded* valet mode, *the switch can and should be mounted in plain view* on the dash or console. Discuss placement of the switch with the vehicle owner. Avoid placing the switch where it may be accidentally toggled.

1. Verify there is adequate space to accommodate the switch, then drill a 1/2" hole and mount the switch.
2. Mate the switch's connectors to the same wire color connectors on the wireloom.

Electronically Programmable Dual-Zone Proximity Sensor™

The high-frequency radio waves of the Proximity Sensor pass through non-metallic materials. Suggested locations include within the center console, behind the dash, or under the carpeting of the central hump. The sensor must face out into the passenger compartment and should be as close as possible to the center of the passenger compartment.

1. Affix the sensor where it will be mounted, but do not yet permanently mount it until after setting and testing sensitivity.
2. Mate the sensor's connector to the wireloom's sensor 1 connector (RED, BLACK, WHITE/BLUE).

Channel 2 Pulsed Output (when disarmed)

The GRAY/VIOLET channel 2 output goes to ground for 0.5 seconds when button 2 is pressed (or for as long as it is held) while the system is disarmed. It is primarily intended for a remote trunk release. Current is limited to .15 amps.

Channel 2 Timer Output (when armed)

The PINK channel 2 timer output goes to ground for any duration of your choosing between 1 sec. and 2.5 min (factory preset to 30 seconds) when button 2 is pressed while the system is armed. It is primarily intended for either remote controlled headlight activation or remote controlled power window and sunroof closure on vehicles that can close them with a turn of the key in the driver's door. Current is limited to 0.15 amp.

Remote Headlight Activation (may require an optional relay)

1. Connect a wire from the relay's terminal 30 to the wire that carries +12V *only* when the headlight switch is activated.

> NOTE: Most Japanese vehicles have negative-switching headlights and do not require a relay. If the headlight line goes to ground when the switch is turned on, connect the PINK wire to the ground supply line and skip the following steps.

2. Connect the PINK wireloom wire to relay terminal 85.
3. Connect terminals 86 and 87 to fused +12V.
4. To program headlight duration, see pages 11–12.

Remote Window/Sunroof Closure *(requires an optional relay)*
If the door key can close the vehicle's power windows and sunroof, you can make them remote controlled:
1. Connect a wire from the relay's terminal 30 to the wire that carries +12V or ground only when you turn the key.
2. If +12V, connect terminals 86 and 87 to +12V. If ground, connect terminal 86 to fused +12V and 87 to ground.
3. Connect the PINK wire to terminal 85.
3. With the sunroof and all windows fully open, count how many seconds it takes for them to fully close.
4. Add two seconds to the count (for slower operation when cold), then program the timer as noted on pages 11–12.

Channel 4 Output
You can program the GRAY/BLUE wire to operate in any of these three manners:
- *As a pulsed output of 0.5 second ground, or for as long as the button is held (this is the factory preset)*
- *As a latched output (i.e., the output stays at ground until channel 4 is activated a second time)*
- *As a timed output that stays at ground for any duration of your choice between 1 second and 2.5 minutes*

See the programming section on pages 11–12 to change the type of output. The output is activated by pressing remote control button 4. Current is limited to 0.15 amp.

Channel 5 Output
You can program the GRAY/RED wire to operate in any of these three manners:
- *As a pulsed output of 0.5 second ground, or for as long as the button is held (this is the factory preset)*
- *As a latched output (i.e., the output stays at ground until channel 5 is activated a second time)*
- *As a timed output that stays at ground for any duration of your choice between 1 second and 2.5 minutes*

See the programming section on pages 11–12 to change the type of output. The output is activated by first pressing the remote control's LevelShift button (on the side of the remote), then pressing button 1. Current is limited to 0.15 amp.

Trunk Trigger
Vehicles with a trunk light will interface directly with the IntelliGuard 800 if the switch polarity is **ground**. The trunk switch may be located near the trunk latch, in the trunk latch mechanism or at the trunk light.
1. Use a voltmeter to determine switch polarity.
2. If polarity is negative, connect the GRAY/YELLOW wire to the trunk switch.

> **NOTE: If the vehicle has a dashboard trunk ajar indicator, use Clifford isolation diode #46-005.**

> **NOTE: If switch polarity is positive, use a relay. Vehicles with no trunk switch require Clifford pin switch #74-035.**

Parking Lights
Please refer to the **Parking Light section** in this binder for information on polarity testing and connections.

Engine Compartment Components

MultiSound Medallion Siren
Yet another great Clifford innovation. You will find the exclusive MultiSound Medallion Siren easy to mount, easy to program, a personalized siren sound and even easy to look at thanks to its pleasing aesthetics. In time, you'll also discover the rock-solid reliability of this Clifford-designed siren: it's ten times greater than that of other manufacturers' look-alike, sound-alike sirens. The reason for this enormous reliability increase is because we have put the entire siren's electronics in the control unit where it is sheltered from heat, water, vibration and dust. Mount the siren in the engine compartment away from hot or moving parts and where it cannot be reached from under the vehicle, preferably opposite the exhaust system. Point the siren down to avoid water collection.
1. Mount the siren using all three sheet metal screws supplied.
2. Connect the siren's BLACK TWIN-LEAD to the wireloom's BLACK TWIN-LEAD.

Hood Trigger
Vehicles with a hood pin switch will interface directly with IntelliGuard 800 if switch polarity is **ground**. If the hood light does *not* operate unless the parking lights are on, install Clifford isolation diode #46-005.
1. Use a voltmeter to determine switch polarity.
2. If negative, connect the WHITE/BLACK wire to the hood pin wire.

> **NOTE: If switch polarity is positive, use a relay. Vehicles with no hood switch require Clifford pin switch #74-035.**

Final Wiring Connections

1. **Do not** plug in the control unit connectors until step 6 below.
2. Connect the 5-amp fuse and fuseholder to the RED wire.
3. Connect the 20-amp fuse and fuseholder to the RED/WHITE wire.
4. Use ring connectors to attach the two fuseholders to the +12V battery lug without removing the terminal from its post.
5. Use a ring connector to attach the BLACK wireloom wire to the negative battery lug without removing the terminal.
6. **SmartPowerUp**—Turn the **ignition on**, plug in the 14-pin connector, then plug in the 18-pin connector. This causes the IntelliGuard 800 to power-up silently.

> NOTE: Power and test accessories after the basic system has been tested. Individually fuse all accessory power connections. Individually fuse all +12V battery connections.

SmartPowerUp™

SmartPowerUp eliminates siren noise whenever IntelliGuard 800 is installed and powered up. Yet if a burglar disconnects battery power, as soon as he reconnects the battery IntelliGuard 800 will instantly arm and sound. To SmartPowerUp the system, simply turn the ignition to the "ON" position and plug in the 5-amp fuse.

System Check

1. Close all doors and **arm** with button 1 of the remote control. The parking lights will **flash twice**, the doors will **lock** and the LED will begin to **blink**.
   a. If you hear 4 chirps immediately or after the initial two chirps, a trigger or sensor is open or active. Disarm with the remote control, enter the vehicle and turn on the ignition. The LED will blink 1–5 times, pause, then repeat the same number of blinks (the blink cycle repeats five times for your convenience). Refer to the chart:

2. Disarm with the remote. You will hear one chirp, the parking lights will **flash once**, the doors will **unlock** and the courtesy light(s) will **turn on**.
3. **Re-arm** the system. *IntelliGuard 800 can be set to automatically adjust for delayed courtesy lighting, so be sure to wait until the interior lights have turned off before you perform step 4.*
4. Unlock and **open a door**. The siren will sound immediately and the parking lights will flash continuously. **Disarm** with the remote control. Close the door, **re-arm** and test each remaining door.
5. **Arm** the system and test the **hood** and **trunk** triggers.
6. Secure the control unit and position the antenna as noted on page 3.

Number of blinks	Trigger/Sensor Identification
1 blink	Proximity Sensor
2 blinks	Optional sensor
3 blinks*	Door trigger*
4 blinks	Trunk trigger
5 blinks	Hood trigger

* The high/low feature (see page 10) must be off in order for the system to read the door trigger upon remote arming.

Remote Control Operation

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 Level-Shift 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**.

LED indicator — Button 1
— LevelShift button
Button 4 —
Button 3 — Button 2

> 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).
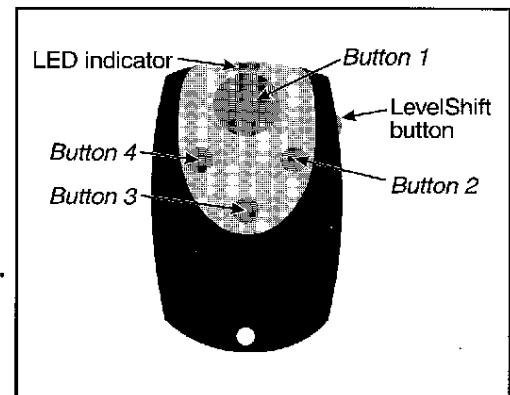
Sensor Adjustment

The IntelliGuard 800's Proximity Sensor is electronically programmable. You can interactively test and adjust via the remote control the sensitivity of both zones of the Proximity sensor. You will be spared from repeated arming and disarming, and obnoxious siren noise. For feedback on the sensitivity changes you make via the remote control, you will hear higher and higher pitched confirmation chirps when remotely increasing sensitivity, and lower and lower chirps when remotely decreasing sensitivity.

To Set the Interior Zone

1. If the system is armed, disarm it with remote control button 1, then roll down the driver's side window.
2. Press twice on the remote control's side LevelShift button, then press button 3 (channel 11). You'll hear a single chirp and the LED will illuminate to confirm that the system is in its interior zone adjustment mode.
3. Test the interior zone by leaning your body through the window toward the sensor. To reduce noise, instead of a full siren blast, you will hear a chirp when the sensor is activated.
   a. Ideally, the sensor should pick up your presence above the driver's seat.
4. To increase sensitivity, press button 2 on the remote control. To decrease it, press button 4. Each time you increase sensitivity, the siren will chirp in higher and higher pitched tones to confirm the change. Conversely, as you decrease sensitivity, the chirps will have lower and lower tones. Two normal tone chirps indicate maximum and minimum settings. Adjust and test until the desired sensitivity is reached. There are 32 sensitivity steps for the interior sensor zone (16 sensitivity steps for the exterior zone).
5. To exit sensor adjustment mode, press button 1 (you'll hear three chirps and the LED will turn off).

To Set the Exterior Zone

Channel 12 (LevelShift button twice, then button 4) selects the sensor's exterior warning zone. Use the same procedure as To Set the Interior Zone, but test by leaning toward the driver's side window. Ideally, the sensor should pick up your presence right next to the window.

High/Low Feature for Factory-Delayed Courtesy Lights

Some vehicles have a courtesy light delay or dimming circuit, which interferes with the security system being able to detect the door trigger upon remote arming. Clifford's High/Low feature solves that problem. If you are working on a vehicle with delayed courtesy lights, be sure to turn on the High/Low feature (column 3, feature 5) as noted on pages 8-9.

Multiple-Event TotalRecall™

The system's non-volatile memory records the identity of the last eight activated or malfunctioning triggers and sensors, which allows you to instantly track down the source of a customer complaint about falsing. To identify the triggers and sensors stored in the system's non-volatile memory, do the following:
1. With the ignition OFF, flick the PlainView switch to its latched side.
2. Press remote control button 1 to "arm," and then again to "disarm."
3. The LED will blink 1-5 times, pause, then blink 1-5 times, etc. Write down the number of blinks in each cycle.
4. Refer to the chart on the right. The first number you wrote down was the most recently activated trigger or sensor. The next number is the second most recent, and so on up to as many as the last eight activations.
5. If it appears that the sensor is often activated, decrease its sensitivity. If a trigger was activated several times, check the pin switch operation and/or check the wire for possible shorting.

Number of blinks	Trigger/Sensor Identification
1 blink	Proximity Sensor
2 blinks	Optional sensor
3 blinks*	Door trigger*
4 blinks	Trunk trigger
5 blinks	Hood trigger

Programmable Features

The IntelliGuard 800 comes from the factory with all of its features pre-programmed as noted in bold letters inside the squares of the table on the next page. To change the setting of any programmable feature, use the procedure noted. To restore the feature to it factory setting, just repeat the procedure:

1. Refer to the Matrix on the next page and note of the column and row numbers of the feature(s) you wish to program.
2. Turn the ignition to the "ON" position, or start the engine (skip this step if the engine is already running).
3. **Enter the factory preset valet code (the single digit 2) by tapping the momentary side of the PlainView switch twice,** then press to latched, then press and hold to the momentary side until you hear one siren chirp and the LED turns on to acknowledge program mode entry. 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's column, then the feature's row.
4. 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 (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. To select the row, tap the momentary side of the switch the same number of times as the 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 (for siren duration, 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, repeat steps 4 and 5.
8. When done, turn the ignition off (you'll hear 3 chirps and the LED will turn off to indicate program mode exit).

It may sound complicated, but it really isn't. There is just a lot of explanation involved. 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!*

Programmable Features Matrix

Feature Select	Column 1 1st latched	Column 2 2nd latched	Column 3 3rd latched	Column 4 4th latched	Column 5 5th latched
Row 1 **1st momentary**	Sound 1: **on**/off	Add new remote to channel 1 **NOTE 1**	Test/adjust primary (normal) zone of radar sensor **NOTE 3**	QuietChirps: on/**off**	Headlight Reminder: **on**/off
Row 2 **2nd momentary**	Sound 2: **on**/off	Add new remote to channel 2 **NOTE 1**	Test/adjust secondary (high) zone of radar sensor **NOTE 4**	Long-term chirp silencing: on/**off**	Channel 2 timer: 1sec-2.5min (**30sec**) **NOTE 6**
Row 3 **3rd momentary**	Sound 3: **on**/off	Add new remote to channel 3 **NOTE 1**	**Pulsed**/constant (1/2 chirps) ground output (YELLOW wire) upon panic **NOTE 5**	15-second entry delay: on/**off**	Channel 4 output: **pulsed**/timed/latched (1/2/3 chirps) **NOTE 7**
Row 4 **4th momentary**	Sound 4: **on**/off	Add new remote to channel 4 **NOTE 1**	FACT: **on**/off	AutoLock/UnLock: **on**/off	Channel 5 output: **pulsed**/timed/latched (1/2/3 chirps) **NOTE 7**
Row 5 **5th momentary**	Sound 5: **on**/off	Add new remote to channel 5 **NOTE 1**	High/Low: on/**off**	Smart AutoArming: **on**/off	Siren duration: 30/60 seconds
Row 6 **6th momentary**	Sound 6: **on**/off	Erase all channels **NOTE 2**	Set a new secret disarming/valet code	AutoArm & Lock: on/**off**	**NOT USED**

The gray cell indicates a feature that requires programming by the vehicle owner only. DO NOT change this setting.

■ **NOTE 1:** Transmit the appropriate channel of the new remote. You will hear two chirps to indicate that the remote has been programmed.

■ **NOTE 2:** 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 the system).

■ **NOTE 3:** Turn off the ignition, exit the vehicle and close the doors, but leave the windows open. Lean into the vehicle. 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. Higher and higher pitched siren tones confirm each sensitivity increase, lower and lower tones confirm each decrease. Repeat until the sensor is set to the sensitivity you wish, making sure that the primary zone does not pick up motion outside the windows, then press remote control button 1 to end programming mode.

■ **NOTE 4:** Use the same procedure as NOTE 3, but set this zone to pick up movement immediately outside the driver's window, but not more than 1-2 feet from the vehicle.

■ **NOTE 5:** This output is ideal for use with air horns, a pager and/or an internal siren. On certain accessories, such as SmartWindows, that require a siren output connection, connect the accessory's siren input to this line and set the output to **constant ground**.

■ **NOTE 6:** The timer starts as soon as you enable this feature (5 latches, 2 momentaries). 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. If channel 4 is set to a timed output (see note 7), it will now have this duration.

■ **NOTE 7:** The channel 4 output may be programmed to either pulsed, timed or latched (factory preset to pulsed). A timed output is particularly useful as a power window/sunroof closer, to remotely activate the headlights for a preset length of time, or for use with hydraulics. A latched output is useful for activating the audio system, under-carriage neon lighting, etc. To change the output type, simply select this feature. 1 chirp indicates that the output will be pulsed, 2 chirps indicate timed, and 3 chirps indicated latched operation.

Programming Example #1

In this example, you will increase, by two steps, the sensitivity of the Proximity Sensor's primary zone, then decrease by one step the sensitivity setting of the Proximity Sensor's secondary zone:

1. Turn the ignition key to the ON position and fully open the driver's window.
2. Enter the valet code on the PlainView valet switch (momentary, momentary, latched, center), then immediately press and hold the momentary side until you hear a chirp.
3. Select feature column 3 by flicking the switch between latched and center 3 times. Wait 3 seconds. The system will sound 3 chirps to confirm feature column 3
4. Press and release the momentary side once (you'll hear one chirp) to select feature row 1.
5. Turn off the ignition, exit the vehicle and close the doors (you may hear one or more chirps; this is simply to acknowledge that the sensor is picking up your presence inside the vehicle).
6. Press and release remote control button 2. You'll hear a rather high-pitched chirp to confirm you've increased sensitivity by one step. Press button 2 again and you'll hear a higher-pitched chirp to confirm the second increase. At this point, leaning into the passenger compartment through the driver's window will produce a chirp to indicate that the sensor's primary zone is picking up your presence.
7. Press button 1 to lock in the new sensitivity setting. You'll hear 3 chirps to confirm this and the system will now be in its normal operating mode.
8. Repeat steps 1 through 3, then press and release the momentary side twice (you'll hear a chirp each time you press the momentary side) to select feature row 2.
9. Turn off the ignition, exit the vehicle and close the doors (you will probably hear one or more chirps; this is simply to acknowledge that the secondary zone is picking up your presence).
10. Press and release remote control button 4. You'll hear a chirp to confirm you've decreased sensitivity by one step. Press button 4 again and you'll hear a lower-pitched chirp to confirm the second decrease. Press button 4 a third time and you'll hear an even lower-pitched chirp to confirm the third decrease. At this point, moving your torso near the driver's window will produce a chirp to indicate that the sensor's secondary "warning" zone is picking up your presence immediately outside the vehicle.
11. Press button 1 to lock in the new sensitivity setting. You'll hear 3 chirps to confirm this and the system will now be in its normal operating mode. You may either enter the vehicle or arm it with another press of button 1.

Programming Example #2

In this example, you will set the system's integrated timer to a 10-second duration and change the system's channel 5 output from its factory preset pulsed output to the 10-second timed output.

1. Repeat steps 1 and 2 above.
2. Select feature column 5 by flicking the switch between latched and center 5 times. Wait 3 seconds. The system will sound 5 chirps to confirm feature column 5.
3. Press and release the momentary side twice to select feature row 2. You will hear 1 chirp to indicate that the timer has started. When 10 seconds have passed, press remote control button 1 (you'll hear a chirp to confirm this).
4. *Immediately* press and release the switch's momentary side 4 times (you'll hear a chirp each time you press the momentary side) to select feature row 4. (NOTE: Since the system was already in feature column 5, immediately tapping the momentary side 4 times selects feature row 4 without having to re-select feature column 5).
5. Wait 3 seconds. You will hear two chirps to confirm that the channel 5 output will now use the system's timer, which you've already set to 10 seconds. If you immediately tap the momentary side 4 times again, the output type will become latched (confirmed with 3 chirps). Immediately tap another 4 times and the output will return to its pulsed state (confirmed with one chirp).

What is a Code Grabber?

Unlike scanners, which are made useless by remote controls with many millions of possible codes (since it would take years for a scanner to transmit each possibility one after another), a code grabber can simply "grab" off the air the digital code transmitted by a car alarm remote control. The code grabber records it, and the thief can retransmit the code at will. When an individual arms or disarms his car alarm, the thief's code-grabber records the remote control's digital code from up to several hundred feet away. When the vehicle owner leaves, the thief simply plays it back and gets the car. A code-grabber will duplicate any remote control code, even if the remote control has billions or trillions of code possibilities. *Every other brand of car alarm can be deactivated that easily.* But not IntelliGuard systems. Clifford's proprietary Anti-CodeGrabbing (ACG) technology uses complex digital signal processing and unbreachable encryption to randomly change the digital code each and every time the remote control is used. The same code will *never* be retransmitted. Thus the code played back by the thief's code grabber will never deactivate an IntelliGuard system. *Only ACG can make a car alarm impervious to code-grabbing, and only Clifford systems have ACG.*

User-Programmable Anti-CodeGrabbing Remote Controls

The IntelliGuard 800 can respond to as many as 4 Clifford 12-channel Anti-CodeGrabbing remote controls with a few flicks of the PlainView switch. Just as easily, the code of a lost or stolen remote control can be deleted. Refer to pages 11–12 for instructions on how to add a new remote control to the system. The codes of a lost or stolen remote control can be erased simply by using the Erase All Channels feature noted in the Programmable Features section (column 2, row 6) and reprogramming the remaining remote control(s) into the system.