







Installation Manual



# Toll-Free Technical Support Helpline: 1-800-444-4667

## For the latest vehicle wiring information and for wiring diagrams and servicing information on older Clifford products:

24-hour AutoFax: 1-800-444-4667

24-hour dealer website: www.clifforddealer.com

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Table of Contents
Important Information
Required Installation Tools
Standard Features
System Components
Wiring Diagram
Wiring Description for 2-Pin Connector
Wiring Description for 24-Pin Connector
Passenger Compartment Connections.5Control Unit and Antenna5Door Trigger/Interior Light Supply.5Central Door Locking System6Door Locks7LED Status Indicator7LED Status Indicator8PlainView 2 Coded Valet Switch8Dual-Zone Piezo Sensor8Trunk Trigger8Parking Lights.9Auxiliary A with Selectable Output Type10Auxiliary B with Selectable Output Type and AutoActivation10Stator or Ignition Immobilization Circuit11Engine Compartment Connections11
High Output Siren       11         Hood Trigger       11
Final Wiring Connections
SmartPowerUp 2
Delayed Courtesy Lights
Remote Control Button Assignments
FACT—False Alarm Control and Test
Eight-Event TotalRecall
Programmable Features       14         Using the CliffNet Wizard PRO       14         Programming the User-Selectable Features       14         User-Programmable Features Table       15         Installer-Programmable Features       16         System Checklist & Troubleshooting.       17         1

## Important Information

- 1. DO NOT dis con nect the bat tery ca bles! Make bat tery con nections by re moving the lug nuts from the bat tery clamps with out de taching the clamp it self.
- 2. Turn off the in terior lights or remove the dome light fuse before start ing the in stal la tion; oth er wise, leaving the door(s) open during in stal la tion will drain the bat tery.
- 3. Use a volt me ter. DO NOT USE A TEST LIGHT! Test lights have a cur rent drain that will dam age the ve hi cle's on board com puter, and if you probe the wrong wire, could deploy the vehicle's air bag(s).
- 4. Make all connections with solder and tape or crimp connectors. DO NOT use bite-type connectors.
- 5. Route the sys tem's ground and power wires di rectly to the ve hi cle bat tery.
- 6. Keep ex ten sion as short as pos si ble. Use same-gauge wire for short ex ten sions, larger gauge for longer extensions. DO NOT USE SPEAKER WIRE!
- 7. Discuss place ment of the LED, valet switch, win dow de cals, etc. with the ve hi cle owner prior to installation.
- 8. DO NOT mount components nor route wires near hot or moving ve hicle parts. Clifford com ponents must not im pede ve hicle servicing or operation.
- 9. DO NOT mount any Clifford sensor in the engine compartment.
- 10. Follow the system's Sequence of Installation to ensure proper installation and testing.
- 11. Place the owner's manual in the glove box.

Note: Clifford Electronics' web site for Authorized Clifford Dealers has detailed descriptions of wire colors and locations for most foreign and domestic vehicles. Installation diagrams and programming procedures for older Clifford products are also avail able. Just visit www.clifford dealer.com for assistance 24-hours per day.

## **Required Installation Tools**

Voltmeter (set to "DC Volt") Wire crimper Wire stripper Electric drill and bits Phillips screwdriver Crescent wrench Vinyl tubing Rubber grommet Convoluted tubing Shrink tubing Solder gun and solder Heat gun

## Standard Features of the Cyber 4

- Lifetime Warranty
- Two ACG<sup>™</sup> 2 Remote Controls
- Audible Low Remote Battery Warning
- Built-In Starter or Ignition Immobilizer
- FACT—False Alarm Control & Test
- Remote Siren Silencing
- Dual Zone Piezo Sensor™
- Dual-Mode "Chirp" Silencing
- Patented UltraSecure Coded Valet Mode<sup>™</sup>
- Optional DataPort<sup>™</sup> Interface to Your Own PC
- Point-and-Click Feature Programming
- Complete System Diagnostics At-A-Glance
- High-Output Siren
- Remote Door Locking/Unlocking with built-in relays
- Remote Panic with Smart Locking/Unlocking
- Built-In Dual Parking Light Flasher with Onboard Relay
- Remote Courtesy Lighting
- Remote Keyless Entry and Accessory Activation Even in Valet
- Patented Smart AutoTesting<sup>™</sup>

- Smart Remote Trunk Release
- User-Selectable AutoArming
- User-Selectable AutoArm & Lock
- Instant AutoArm Bypass
- Patented Malfunction AutoBypass<sup>™</sup>
- Patented SmartPowerUp<sup>™</sup> 2
- MultiVehicle Control with One Remote
- Eight-Event TotalRecall™
- Smart Prior Intrusion Attempt Alert
- Patented Remote Control Code Learning and MultiRemote Recognition
- Clear All Remotes
- LED Status Indicator with Automatic Battery-Saving Mode
- SecureAccess<sup>™</sup> Programming
- Pre-Loomed Wiring
- 2 Accessory Outputs with Selectable Output Type, One with Selectable AutoActivation for All-Close Windows
- Integrated Electronic Timer for Remote Headlight Activation or Timed Turbo Cooldown
- Installer-Selectable Door Ajar/Delayed Courtesy Lights
- Prewired LED, Sensor and PlainView 2 Switch Connectors

#### System Components

The Cyber 4 installation kit contains the following components:

One Prewired 24-pin connector harness One Prewired 2-pin connector harness One Cyber 4 Control Unit One Hardware Kit One Dual Zone Piezo Sensor Two Remote Transmitters One Antenna One High Output Siren One PlainView 2 Coded Valet Switch One Prewired LED One User's Manual Two Clifford Window Decals



## Wiring Description for 2-Pin Connector

 White/Red
 Starter or Ignition Interrupt

 White/Red
 Starter or Ignition Interrupt

#### Wiring Description for 24-Pin Connector

Pin	Wire Color	Connects to
1	Violet	LED output (+)
2	Green	Armed output (-)
3	Blue	Sensor input warning zone (-)
4	White	Valet Switch input (-)
5	Gray/Blue	Auxiliary B output (-)
6	Gray/Violet	Auxiliary A output (-)
7	White/Brown	Ignition Input
8	Orange	Optional Sensor (-)
9	Gray	Door trigger input (+) or (-)
10	Gray/Yellow	Trunk and hood trigger input (-)
11	Orange	Dual-Zone Piezo Sensor input trigger zone (-)
12	Yellow	Siren output (-)
13	Black	Battery Negative (ground for the Dual-Zone Piezo Sensor, optional sensor and LED connectors, Valet Switch)
14	Red	Battery positive with 5 Amp fuse
15	Brown/Red	Interior light supply
16	Red/White	Battery positive with 20 Amp fuse
17	Brown	Parking light output (+)
18	Brown	Parking light output (+)
19	Gray/Orange	Door unlock normally closed
20	Gray/Green	Door lock normally closed
21	White/Orange	Door unlock comm.
22	Red/Green	Door lock normally open
23	Red/Orange	Door unlock normally open
24	White/Green	Door lock comm.

## Passenger Compartment Connections

#### **Control Unit and Antenna**

The Cyber 4 control unit must be installed inside the vehicle. Under no circumstances should the unit be installed under the hood or other similarly hostile environment.

- 1. Select an area behind the dash to mount the control unit using wire ties, but do not permanently affix it until all wiring and testing is complete.
- 2. Run the antenna either up the window pillar or under the dash, away from metal. Do not fold the excess cable or antenna wire. Do not make hard, sharp bends.

## Door Trigger/Interior Light Supply

The Cyber 4 has self-programming door trigger polarity. Door triggers on most autos are negative (except most Rolls-Royce and Ford autos). To determine door trigger polarity, use the following procedure:

- 1. Find the wire coming off the rear of the vehicle door switch.
- 2. Connect the negative voltmeter lead to ground.
- 3. Find the one wire that shows + 12 volts when the switch is pressed in and 0 volts when released. This is a negative trigger door wire.
- 4. If you don't get the indications noted in step 3, find the one wire that shows 0 volts when the switch is pressed in and + 12 volts when released. This is a positive trigger door wire.

#### Door Trigger/Interior Light Supply (Continued)

- 5. Connect the system's thin GRAY wire to the door wire.
- 6. If the trigger wire is negative, connect the system's BROWN/RED interior light supply wire to ground. If the trigger wire is positive, connect the system's BROWN/RED interior light supply wire to the RED/WHITE wire.

NOTE: Clifford Electronics' web site for Authorized Clifford Dealers has detailed descriptions of wire colors and locations for most foreign and domestic vehicles. Installation diagrams and programming procedures for older Clifford products are also available. Just visit www.clifford dealer.com for assistance 24-hours per day.

#### Central Door Locking System

Please refer to the **Door Locks** section below for information on circuit types and connections. When adding an IntelliStart 4 to the Cyber 4, it is recommended that RPM-depending door locking be selected. The RPM-dependent door locking feature is only available with the addition of the IntelliStart 4.

#### **Door Locks**

WARN ING: If the power door locks do not op er ate prop erly when the sys tem is armed and dis armed, DO NOT USE THE VE HI CLE'S DOOR LOCK SWITCH! If the control unit's door lock wires are miswired, permanent damage to the con trol unit or to the car's elec tri cal sys tem and door lock ser vos will re sult. If you re quire assistance, call the Clifford Tech ni cal Sup port Helpline PRIOR to wiring the door locks.

Cyber 4 systems provide power door lock interface capabilities and are able to interface with any power door lock configuration including some Mercedes Benz and Audi vehicles that require a 3-second lock pulse (pulse duration is installer-programmable) and with any car 'Volkswagens and Nissans, for example) that require double unlock pulse. If the vehicle is not equipped with power door locks, you may optionally add up to four #60-516DoorLock Servos.

## Determining the Door Lock System Type

- 1. Remove the door lock switch on the driver's side of the vehicle to reveal the switch wires. a. If there are four or more wires, make the connections shown in Diagram 4 for
  - a. In there are four of more wires, make the connections shown in Diagram 4 for reverse polarity.
  - b. If there are three wires, proceed to step 2.
  - c. If the vehicle is a Nissan and it does not have a door lock switch, find the single wire in the driver's kick panel that shows ground when the locks are unlocked and "open" when the locks are locked. Cut this wire and make the connections shown in Door Lock/Unlock Diagram 3.
- 2. Connect the negative voltmeter lead to ground and probe each wire while locking/unlocking. If the voltmeter show + 12v while activating the switch, make the connections shown in Door Lock/Unlock Diagram 1 for positive trigger. Otherwise, go to step 3.
- 3. Repeat step 2 with the negative voltmeter lead connected to + 12v. If the voltmeter shows + 12v while activating the switch, make the connections shown in Door Lock/Unlock Diagram 2 for negative trigger.
- 4. Locks controlled from the driver's door key require installation of just one #60-516 servo in the driver's door. Vehicles without factory power locks require a servo in each door. Mount the servo(s) and make the connections shown in Door Lock/Unlock Diagram 5.

- 5. On a vacuum-pump-type Mercedes Benz or Audi, make the connections shown in Door Lock/Unlock Diagram 6, then (if 1989 or older) program the system for a 3-second lock pulse.
- 6. The Cyber 4 can also provide double lock and unlock pulses (+ or -) required by some vehicles (such as some Nissans' Volkswagens and Audis). Wire the door locks following the steps above and select the 2x lock or unlock feature in installer-programming.



#### LED Status Indicator

Select a prominent location on the dash or console visible through all windows. Discuss placement with the owner.

- 1. Verify there is adequate space to accommodate the LED, then drill a 5/16" (8mm) hole and route the wires through it.
- 2. Mate the LED connectors to the VIOLET and BLACK wire connectors as shown in the diagram on page 4.
- 3. Press the LED into place.

#### PlainView 2 Coded Valet Switch

- 1. Discuss placement of the switch with the vehicle owner and avoid placing the switch where it can be pressed accidentally.
- 2. Verify there is adequate space behind the selected location to accommodate the switch.
- 3. Drill a 5/16" (8mm) mounting hole, then insert the wires through the hole and mount the switch.
- 4. Mate the switch's locking connectors to the WHITE and BLACK locking connector.
- 5. Remove the adhesive backing and press into place.

#### **Dual-Zone Piezo Sensor**

Mount the Dual-Zone Piezo Sensor in the passenger compartment, not in the engine compartment.

- 1. Firmly mount the sensor near the base of the steering column (if the steering column has a rotating sleeve, firmly screw the sensor to the interior firewall, kick panel or trunk wall). Make certain that the adjustment screw is accessible.
- 2. Mate the sensor to the connector on the wireloom from the control unit with the BLACK, RED, ORANGE and BLUE wires.

#### Trunk Trigger

Vehicles with a ground-switching trunk light will interface directly with the Cyber 4 (on positive switching Rolls-Royce vehicles, use a relay to invert polarity). The switch may be located in or near the trunk latch or at the trunk light. If a switch cannot be located, you must add a pin switch in a location away from water channels.

NOTE: If the vehicle has a dash board trunk ajar in dicator, in stall a 1A di ode between the light and switch with the diode band pointing toward the switch.

 Connect the GRAY/YELLOW wire to the trunk switch (between the diode and switch if you added a diode).

#### Parking Lights

The Cyber 4 has built-in parking light relays.

To determine whether the vehicle has single or dual parking light circuit(s), you must access the fuse panel. A single circuit has one fuse; a dual circuit has two.

#### Single Parking Light Circuit (Most Japanese and American Vehicles)

- 1. Turn on the parking lights and access the Parking Light wiring in one of the following locations:
  - ■Near the head light switch
  - ■In the door sill har ness go ing to the rear lights
  - ■At any of the four Parking Light bulbs
- 2. If working underdash, be sure to turn the dashlight dimmer to its lowest setting.
- 3. Connect a voltmeter lead to ground and find the single wire that shows + 12v when the parking lights are on and 0 volts when they are off.
- 4. Connect **both** of the BROWN wires to the parking light wires.

## Dual Parking Light Circuit (Most European Vehicles)

1. Turn on the parking lights and access the Parking Light wiring in one of the following locations:

■Near the head light switch

■In the door sill har ness go ing to the rear lights

- ■At any of the four Parking Light bulbs
- 2. If working underdash, be sure to turn the dashlight dimmer to its lowest setting.
- 3. Connect a voltmeter lead to ground and find the two wires that show + 12v when the parking lights are on and 0 volts when they are off.
- 4. Connect one lead to the left-side Parking Light circuit and connect the other lead to the right side circuit.

NOTE: Never connect the RED/WHITE wire to ground. Always pick up the positive-switching parking light line(s).



#### Auxiliary A with Selectable Output Type

The Auxiliary A output (GRAY/VIOLET wire) can be programmed as either pulsed, latched or timed and can be programmed to operate only when the system is disarmed (e.g., for use as a remote trunk release). Auxiliary A output is activated by pressing the button on the remote control. The factory setting is pulsed output (0.5 second ground). The latched output stays at ground until the button is pressed a second time, and the timed output stays at ground for any selected duration between one second and four minutes. See *Installer-Programmable Features* page 16 for information on programming the output type and/or disabling operation while the system is armed.

#### Auxiliary B with Selectable Output Type and AutoActivation

The Auxiliary B output (GRAY/BLUE wire) can be programmed as either pulsed, latched or timed. It can also be programmed to automatically activate every time the system is remotely armed. The output is activated by pressing the the button on the remote. Current is limited to 0.25 amp. AutoActivation is perfect when programmed as a timed-output to close the power windows and sunroof on vehicles that have an all-close feature (see the *Window Control* section at the end of this manual for more information on wring this feature). See *Installer-Programmable Features* on page 16 for more information on programming output type and/or enabling the AutoActivation feature.

#### Window Control

If the windows can be closed using a key in the door of the car then an optional relay can be added to automatically close the power windows or the sunroof.

#### Automatic Window/Sunroof Closure (requires optional relay)

If the door key can close the power windows/sunroof, you can make them automatically close upon remote arming:

- 1. Find the wire that shows either + 12V or (-) when the key is held to lock in the door cylinder.
- 2. Tap a wire in to this wire and connect to terminal 30 of the relay.
- 3. If the wire shows (-) when the key is turned, connect terminal 87 to (-). If the wire shows + 12V when the key is turned, connect terminal 87 to 12V.
- 4. Connect the GRAY/BLUE wire of the alarm terminal 85.
- 5. Connect + 12V to terminal 86.
- 8. Turn on the *AutoActivate timed accessory upon remote arming* feature as noted in the installation manual for the alarm under Installer-Programmable Features.
- 8. Set the timer duration to proper time interval with two seconds added to that time interval.

#### Starter or Ignition Immobilization Circuit

Either the starter or ignition circuit can be disabled with the immobilizer.

NOTE: The starter circuit may carry a very high current. Be certain that the starter wire connections are solid.

#### To interrupt the ignition circuit:

- 1. Locate the ignition switch wireloom under the dash and use a voltmeter to locate the one wire that carries + 12V throughout **BOTH the cranking AND engine running cycles**, and 0 volts when the ignition is off.
- 2. Start the engine, then cut the ignition wire. The engine should stop running.
- 3. Connect the WHITE/RED wire and WHITE/BROWN wire to the key side of the cut ignition line.
- 4. Connect the other WHITE/RED wire to the ignition side of the cut ignition line.

#### To interrupt the starter circuit:

- 1. Use a voltmeter to locate the **one** wire that carries + 12V during the **cranking cycle ONLY**.
- 2. Cut this wire, then try to start the engine. It should not crank.
- 3. Con nect the WHITE/RED wire to the key side of the cut starter line.
- 4. Connect the other WHITE/RED wire to the starter side of the cut starter line.
- 5. Locate the ignition switch wireloom under the dash and use a voltmeter to locate the one wire that carries + 12V throughout **BOTH the cranking and engine running cycles**, and 0 volts when the ignition is off.
- 6. Connect the WHITE/BROWN wire to this wire.

## **Engine Compartment Connections**

## High Output Siren

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 (see the illustration).

- 1. You must firmly secure the siren to the engine bay firewall or a fender well using all three sheet metal screws supplied.
- 2. Connect the wireloom's YELLOW wire to the BLACK siren wire.
- 3. Connect the RED wire through the 5A fuse coming from the battery positive cable clamp.

#### Hood Trigger

Vehicles with a ground-switching hood light will interface directly with the Cyber 4 (on positive switching Rolls-Royce vehicles, use a relay to invert polarity). The switch may be located in or near the hood latch or at the hood light. If a switch cannot be located, you must add a pin switch in a location away from water channels.

1. Connect the GRAY/YELLOW wire to the hood switch.

## Final Wiring Connections

- 1. Connect the RED wire to the 5A fuseholder as shown on page 4.
- 2. Connect the RED/WHITE wire to the 20A fuseholder as shown on page 4.
- 3. Attach the two fuseholders to the battery positive cable clamp.
- 4. Attach the BLACK wire to the vehicle battery negative cable clamp.

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

## SmartPowerUp<sup>™</sup> 2

SmartPowerUp 2 ensures that the system powers up in the same state (disarmed, armed or valet mode) it was last in. When you first power up the system, it will silently enter its disarmed state.

## **Delayed Courtesy Lights**

Some vehicles have a courtesy light delay or dimming circuit, which interferes with an alarm being able to detect the doortrigger upon remote arming. If the delay or dimming lasts more than 5 seconds, no special connections or testing are needed, simply turn on the *Delayed Courtesy Lights* feature as noted in the *Installer-Programmable Features* section on page 16. Please note that since this feature sets the system to arm the instant the courtesy lights are off, the Door Ajar Warning feature will not be available.

## **Remote Control Button Assignments**

The Cyber 4 comes with two ergonomically designed remote controls. Up to two additional Clifford ACG 2 remote controls can be added (older Clifford ACG and non-ACG remotes are not compatible with the Cyber 4). For instructions on how to use the remote controls, please refer to the Cyber 4 User's Manual.

Maste remote co

	Function	Press button(s)
r	Arm/Disarm	<b>_</b> î∕ <b>≙</b>
ontrol	Activate Auxiliary A* (usually remote trunk release)*	æ
$\sim$	Silent Arm/Disarm	<b>■</b> <sup>7/</sup> <b>□</b> + *
	IntelliStart 4 Accessory*	*
	Activate Auxiliary B* (usually timed headlight activation)	
━₽//	SmartWindows 4 Accessory*	<b>_</b> \^_ + <b>←</b>
	Unassigned*	<b>≠</b> + *
RD/	Unassigned*	- 1∕≙ + ⊳≠
	Remote Valet Mode Enter/Exit*	<b>⊳</b> ∎ <b>i</b> + ★
	LowTemp/LowBattery AutoStart or Manual Transmission SafeStart*	<b>€</b> <b>→</b> + <b>→</b>

\*These chan nels can be as signed to con trol other Clif ford ACG 2 systems and ac cesso ries on the cus tomer's other ve hi cles.

## FACT—False Alarm Control and Test

The system microprocessor automatically checks for another activated sensor or trigger before sounding the siren a second time, thus preventing any further false alarms. If you wish to test FACT, simply,

- 1. Arm the system with the remote control.
- 2. Wait 10 seconds after the interior light turns off, then trigger the Dual-Zone Piezo Sensor to activate the siren.
- 3. Do not disarm the system, let the siren complete its cycle.
- 4. Trigger the sensor again. The alarm should be silent.
- 5. Unlock and open a door. The alarm should sound immediately. You may now disarm.

## Eight-Event TotalRecall

The system's nonvolatile memory records the identity of the last eight activated or malfunctioning triggers and sensors.

NOTE: The CliffNet Wizard displays the Eight-Event TotalRecall data in a graphical format.

- 1. With the ignition OFF, press and hold the unmarked side of the PlainView 2 Switch.
- 2. Press remote control button 1 to "arm," and then again to "disarm," and then release the button.
- 3. The LED will flash 1–10 times, pause, then flash 1–10 times, etc. Write down the number of flashes in each cycle.
- 4. Refer to the following chart. 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.

LED flashes	Trigger/sensor indication	
1 flash	Optional Sensor	
2 flashes	Dual-Zone Piezo Sensor	
4 flashes	Door Trigger	
5 flashes	Trunk Trigger/Hood Trigger (trunk only, if IntelliStart 4 has been installe	
6 flashes	Hood Trigger (only if optional IntelliStart 4 has been installed)	
7 flashes	An attempt was made to turn on the ignition or start the engine while the system was armed	
10 flashes	System Power Interruption	

5. If a sensor is often activated, decrease that sensor's sensitivity (or reposition the sensor, if necessary). If a certain trigger is often activated, check pin switch operation, verify that the pin switch is not exposed to moisture and check the trigger wire for possible shorting.

## **Programmable Features**

Cyber 4 comes from the factory with its features preprogrammed as noted in **bold** text in the tables on pages 15 and 16. Some features can be programmed by the installer or the user, others can only be programmed by the installer. There are two tables provided which define the user-programmable and installer-programmable features.

## Using the CliffNet Wizard Pro

The CliffNet Wizard provides almost intuitive access to all installer and user-programmable features through a user-friendly, graphical user interface. Because CliffNet Wizard Pro is Windows<sup>™</sup>-compatible, most operations can be accomplished by simply pointing and clicking a mouse. CliffNet Wizard Pro totally eliminates complicated programming charts and lengthy programming sequences. Please refer to the *CliffNet Wizard Pro User's Guide* for more programming information if you are using the CliffNet Wizard Pro. Otherwise, for manual programming refer to the tables provided in the following sections.

## Programming the User-Selectable Features

- 1. Write down the column (across) number and row (down) number of the feature(s) you wish to program.
- 2. Turn the ignition to the "ON" position or start the engine.
- 3. Enter the factory preset valet/programming code of "2" by pressing the PlainView 2 Switch's ★ button twice, then press the unmarked button.
- 4. After entering the code, press and hold the★ for about 3 seconds until you hear one siren chirp and the LED turns on to acknowledge program mode entry. The Cyber 4 is now in the "Feature Select" position for User-Programmable Features.
- 5. Select the feature column: Press the unmarked button the same number of times as the column number. Pause. You will then hear the same number of chirps as the column number you have selected, audibly confirming your selection.
- 6. Within five seconds, select the feature row: Press and release the ★ button the same number of times as the feature's row number. You'll hear a chirp each time you press the button to help you count.
- 7. If there is a NOTE for the selected feature, perform the actions noted.
- 8. Pause. You will hear either one or two chirps: two chirps = ON, one chirp = OFF.
- 9. You can select another feature, or you can exit program mode:
  - a. **To select another feature** in that same column, repeat step 6 within the next five seconds (after five seconds, three chirps indicate that the Cyber 4 is now back in the "Feature Select" position).
  - b. To select a different feature column, repeat step 5.
  - c. **To exit program mode**, turn the ignition off (you'll hear three chirps and the LED will turn off to indicate exit of program mode), or wait 60 seconds and the Cyber 4 will automatically exit program mode.

User-Programmable Features User-Programmable Features (1 Chirp = OFF, 2 Chirps = ON)

Feature Select	Unmarked 1	Unmarked 2	Unmarked 3	Unmarked 4
*1	Add New Remote NOTE 1	Chirps (None/ <b>Loud</b> /Quiet) (1 chirp/ <b>2 chirps</b> / 3 chirps)	AutoArming (Off/ <b>On</b> )	Arm/Disarm with Secondary Remote <b>NOTE 5</b>
* 2	Personalized Siren Sounds* <b>NOTE 2</b>	NOT USED	AutoArm & Lock ( <b>Off</b> /On <b>)</b>	Trunk Release with Secondary Remote <b>NOTE 6</b>
* 3	Play Siren Sounds* ( <b>Always</b> /Trigger Only) ( <b>1 chirp</b> /2 chirps)	Remote Valet Feature ( <b>On</b> /Off)	NOT USED	Silent Arm/Disarm with Secondary Remote <b>NOTE 6</b>
* 4	Siren Duration ( <b>30</b> /60/90 Seconds) ( <b>1 chirp</b> /2 chirps/3 chirps)	AutoStart None/Battery/ Temp /Both) (1 chirp/2 chirps/ 3 chirps/4 chirps) (Requires IntelliStart 4)	FACT (Off/ <b>On)</b>	NOT USED
* 5	AutoLock (Off/ <b>O n</b> /RPM) (1 Chirp/ <b>2 Chirps</b> /3 Chirps) (*IntelliStart 4 required for RPM dependent door locking)	NOT USED	NOT USED	Remote Start with Secondary Remote (Requires IntelliStart 4) <b>NOTE 6</b>
*6	AutoUnlock (Off/ <b>On)</b>	Clear All Remotes NOTE 4	NOT USED	Window Rolldown/Vent with Secondary Remote (Requires SmartWindows 4) <b>NOTE 6</b>
* 7	Reset All to Factory Settings (except remotes and valet code) <b>NOTE 3</b>	Valet Code SHOULD ONLY BE PROGRAMMED BY VEHICLE OWNER	NOT USED	Remote Valet with Secondary Remote <b>NOTE 6</b> Self-PoweredSmartSiren

\*Requires Self-Powered Smart Siren 4

- **NOTE 1:** Press the **D**<sup>1</sup>/**D** button on the remote to be programmed, you will hear one chirp. Press the button *again*, you will hear two chirps.
- **NOTE 2:** When this feature is selected, siren sound 1 will play for five seconds. Press marked to turn the siren sound off, press unmarked to activate the sound. Next, siren sound 2 will play for five seconds. Press marked to turn the siren sound off, unmarked to activate it. The system will cycle through all six siren sounds.
- *NOTE 3:* You will hear two chirps when all features are reset.
- **NOTE 4:** When you hear two chirps, all remote controls will have been erased from the system memory. You must now add the new and/or existing remote controls to the system (i.e., AutoProgram each remote that will be used with the Cyber 4).

## **User-Programmable Features (Continued)**

- NOTE 5: Programs a remote control from any other Clifford system (that uses ACG 2 technology) to arm or disarm the vehicle. For instance, to set the button ↔ + ★ combination of the other car's master remote control to arm/disarm the system, select column 4, row 1, then transmit the ↔ + ★ button combination from the remote you are programming. The system will respond with one chirp. Immediately press the button combination a second time. The system will respond with two chirps. The other vehicle's remote will now arm/disarm the system by pressing the ↔ and ★ buttons simultaneously.
- NOTE 6: This feature can be controlled by a secondary remote or any remote control of any other ACG 2 system, after that remote has been programmed to arm/disarm this system. Select the row and column number, then transmit the unused button on the other remote that you want to use to perform that function. The system will respond with the same number of chirps as the row number. Please note that you must first set a button on the remote that will arm/disarm the system (column 4, row 1) before these others will be accepted.

## Installer-Programmable Features

To access the installer-programmable features, use the same procedure as on page 15, but after completing step 4, *continue* to press and hold the  $\star$  side of the PlainView 2 Switch for another 10 seconds. You'll hear 3 chirps to indicate the system is in installer-program mode.

Feature Select	Unmarked 1	Unmarked 2	Unmarked 3
*1	Single/Double Lock Pulse (1 chirp/2 chirps)	Accessory Output Timer Duration (10 Seconds) NOTE 1	Door Ajar Warning/Delayed Courtesy Lights (1 chirp /2 chirps)
* 2	Single/Double Unlock Pulse (1 chirp/2 chirps)	Auxiliary A type (Pulsed/Timed/Latched) (1 chirp/2 chirps/3 chirps)	Auxiliary A Interlock (On/ <b>Off</b> )
* 3	Lock/Unlock Pulse <b>1 second/</b> 3 second ( <b>1 chirp</b> /2 chirps)	Auxiliary B type (Pulsed/Timed/Latched) (1 chirp/2 chirps/3 chirps)	Auxiliary B Interlock On/ <b>Off</b>
* 4	NOT USED	Diesel Engine/Gas Engine (1 chirp/2 chirps) (Requires Optional IntelliStart 4) NOTE 2	AutoActivate Auxiliary B (On/ <b>Off</b> )
* 5	Program RPM (Requires Optional IntelliStart 4)	Program Optional SmartWindows 4 or Learn PageMate 4 ID	NOT USED

Table of Installer-Programmable Features: 1 chirp = OFF, 2 chirps = ON.

**NOTE 1**: Once this feature is selected, you will hear one chirp to confirm that the timer has started. You can set this anywhere from one to 4.25 minutes (255 seconds). When the desired duration has been reached, press the unmarked side of the PlainView 2 switch. You will hear two chirps to confirm the new system timer duration.

**NOTE 2:** After programming either gas or diesel, you must perform the mandatory RPM programming.

## System Checklist & Troubleshooting

The follow ing check list and trou ble shoot ing tips will as sure that you have in stalled the Cyber 4 correctly. If the system does not re act as noted, follow the trou ble shoot ing tip(s) de noted with a black box be low that item, then re peat the step. Each suc ces sive step re quires that the previous step has been completed as indicated.

#### Step 1.

#### Re-enable the courtesy lights.

In step 1 of the **Important Information** section at the beginning of this manual, the interior courtesy lights were disabled. You must now re-enable the courtesy lights by replacing the fuse you re moved or re set the court tesy light switch back to its nor mal "DOOR" position before proceeding.

#### Step 2.

#### Test the Immobilization circuit.

Arm the Cyber 4 (either from inside or outside the vehicle) and wait 10 seconds. Turn the ignition to the "ON" position.

- Engine does not respond and alarm triggers. This is the correct response, proceed to step 3.
- **Engine starts or cranks.** The immobilization circuit has been miswired. Carefully retest the ve hi cle wires as noted in the *Starter or Ignition Immobilization Circuit* section on page 11.
- Engine still starts or cranks after retesting all the wiring as noted on page 11, check the power and ground connections. Then make sure the fuses are in the fuseholders, verify the control unit connectors are securely fastened, verify the ignition wires are connected to the true ignition line instead of a 12V or accessory line, and verify that the transmitters are programmed correctly.

## Step 3.

## Test the chirps.

Close all doors and arm the Cy ber 4 by pressing the **1**/**2** button on the remote control. **2** Chirps: This is the correct response. Proceed to step 4.

- **Chirp:** If you hear only one chirp, the Cyber 4 had previously armed itself passively and by pressing the button, the system disarmed (remote disarming is acknowledged)
- with one chirp and one parking light flash). Disarm and rearm the system.
  4 Chirps: If you hear 4 chirps either immediately or 5-10 sec onds after the initial two chirps, a trig ger or sen sor is open or active, or the ve hi cle has de layed cour tesy lights and the De layed Cour tesy Lights fea ture has not been programmed on. Dis arm with the re mote con trol, enter the ve hi cle and turn on the ignition. The LED will flash 1–10 times, pause, then repeat the same number of flashes (the flash cycle repeats five times for your con ven ience). Refer to the following chart.

LED flashes	Trigger/sensor indication		
1 flash	Optional Sensor		
2 flashes	lashes Dual- Zone Piezo Sensor		
4 flashes* Door Trigger*			
5 flashes Trunk Trigger/Hood Trigger (trunk only, if IntelliStart 4 is installe			
6 flashes	flashes Hood Trigger (only if IntelliStart 4 has been installed)		
7 flashes	An attempt was made to turn the ignition "ON" or start the engine while the system was armed		
10 flashes	Power Interruption		

\* If the de layed cour tesy lights fea ture is ac ti vated, this trigger in di ca tion will not be provided.

If the *door trigger* is indicated, activate the delayed courtesy lights feature.

## System Checklist & Troubleshooting (Continued)

■ No chirps. If there are no chirps, verify that the Chirps feature (User-Programming - col umn 2, row 1) is "On" and check the wir ing con nections as noted in the *High Output Siren* section on page 11.

NOTE: If none of the troubleshooting techniques described in steps 3 - 7 corrects the problem, perform the following diagnostics:

■ Make sure the fuses are in the fuseholders.

- Check the power and ground connections.
- Ver ify that the con trol unit con nec tor is properly in serted into the con trol unit.
- Verify that the ignition input is connected to the true ignition line instead of a 12V line. Find the true ignition line by following the appropriate steps of the *Starter or Ignition ImmobilizationCircuit* section on page 11.
- Ver ify that the trans mit ters are pro grammed cor rectly.

NOTE: If the 20A fuse blows upon arming:

■ Disconnect the Cyber 4's two parking light wires, replace the 20A fuse and rearm. If the fuse blows while the parking light wires are disconnected, the door locks are not wired correctly. Reconnect the vehicle's power locking system to its original condition, then re test the volt ages as in di cated in the *Door Lockssection* earlier in this manual and wire the locks as indicated, then re place the 20A fuse.

#### Step 4.

#### Test the parking lights.

Arm the system by pressing the  $\mathbf{n}^{\prime}\mathbf{\hat{e}}$  button on the remote control.

- **Two flashes.** This is the correct response, proceed to step 5.
- **One flash.** If the parking lights flash only once, the Cyber 4 had previously AutoArmed it self pas sively and by pressing ■/ the but ton the system dis armed (re mote dis arm ing is ac knowl edged with one chirp and one parking light flash). Disarm and rearm the system.
- No flashes. If no flashes, ver ify the parking light bulbs are op era tional. If not, they must be replaced. If so, repeat steps 1-5 of the *Parking Lights* section earlier in this manual.
- **Only one side flashes.** If only the right or the left side parking lights flash, see the **Parking Lights** section earlier in this manual.

#### Step 5.

Test the door locks.

Arm the system by pressing the  $\mathbf{M}$  button on the remote con trol.

**Doors lock.** This is the correct response, proceed to step 6.

**Doors do not lock.** You ei ther se lected the wrong door lock dia gram, con nected the wires incorrectly, or a servo may be required. Reconnect the vehicle's powerlocking system to its origi nal con di tion, then re test the volt ages as in di cated in the **Door Locks** section earlier in this manual and wire the locks as indicated.

WARNING: If the doors do not lock, DO NOT activate the vehicle's lock switches. If the locks have been mis wired, do ing so may dam age the con trol unit, the vehicle's electrical system and/or the power lock servo motors.

- **Doors unlock.** You either selected the wrong door lock dia gram, con nected the wires incorrectly, or a servo may be required. Re con nect the ve hi cle's power lock ing system to its origi nal con di tion, then re test the volt ages as in di cated in the **Door Locks** section earlier in this manual and wire the locks as indicated.
- ■Only one door locks. You ei ther se lected the wrong door lock dia gram, con nected the wires incorrectly, or a servo may be required. Reconnect the vehicle's powerlocking system to its original con di tion, then re test the volt ages as in di cated in the **Door Locks** section in this manual and wire the locks as indicated.

Step 6.

## Test the LED.

Arm the system by pressing the  $12^{10}$  button on the remote control.

- **Flashes repeatedly.** This is the correct response, proceed to step 7.
- No flashes. If the LED does not flash, verify that the LED's VIOLET and BLACK wires are solidly connected to the same color wires on the Cyber 4's wireloom. Warning: This is a 2- volt LED, test ing with 12 volts will de stroy the LED.

#### Step 7.

#### Test the PlainView 2 Switch.

- Test the valet code and switch operation. Use the instructions provided on page 14 to enter programming mode. If the system enters programming mode, the switch and valet code are in operating order. If not, perform the following tests:
- Check the WHITE/BROWN wire, ignition input is on and verify that it shows + 12V when the ignition is turned ON and + 0V when the ignition is OFF. If not, refer to the *Starter or Ignition Immobilization Circuiton* page 11.
- Test the WHITE wire at the control unit connector. It should rest at 5 volts. When pressing the marked side, it should read 3 volts and when pressing the unmarked side it should read 0 volts. If any reading is incorrect, move the voltmeter to the BLACK wire at the valet switch. It should read 0 volts at rest, 0 volts when the marked side marked is pressed, and 0 volts when the unmarked side is pressed. If the BLACK wire tests correctly and the WHITE wire does not, replace the switch. If the BLACK wire tests incorrectly, repair the ground circuit. If both wires test correctly, then the valet code has been changed. Use the CliffNet Wizard Pro to reset the valet code.

#### Step 8.

Test the Dual-Zone Piezo Sensor.

Arm the system and tap the car softly with your fist. The following should occur:

**Siren chirps five times.** Proceed to the next test.

Hit the car firmly with your fist. The following should occur:

■Alarm triggers. Proceed to step 9.

If either of these test fail, adjust the sensor using the adjustment knob and retest.

#### Step 9.

#### Test the disarm function.

Disarm by pressing the  $1^{\prime}$  button on the remote control. The following should occur:

**Siren chirps once**. If the siren does not chirp once, refer to step 3.

**Parking lights flash once.** If the parking lights do not flash once, refer to step 4.

**LED stops flashing.** If not refer to step 6.

**Doors unlock.** If not refer to step 5.

- **Immobilizer circuit immediately disengage** (test this by turn ing the key in the ignition switch; the engine should crank, start and idle normally). If the Immobilizer circuit does not disengage, refer to step 2.
- Interior courtesy light(s) turn on and stay on for 30 sec onds or un til the ignition is turned on, whichever occurs first.
  - If the interior light(s) do not turn on, verify that you replaced the interior light fuse you re moved or have turned the lights back on as noted in step 1 of this sec tion.
  - Check the Cyber 4's 20A fuse. If the fuse blew when you disarmed, the ve hi cle uses a
    positive door trigger and you connected the interior light supply wire to ground
    in stead of + 12 volts. Re place the 20A fuse and retest.
  - Check the door trigger cir cuit. See step 10 for more information on testing the door trigger circuit.

Step 10.

#### Test the door trigger circuit.

Rearm the sys tem. Wait at least 10 seconds (if the vehicle has delayed or dimming courtesy lights, be sure to wait at least 10 seconds after the interior lights have turned off). Use the key to unlock and open the driver's door.

- Siren sounds, parking lights flash repeatedly. This is the correct response, proceed to step 11. (You can silence the siren by pressing the button on the remote control once or disarm by pressing the button twice.)
- Siren does not sound immediately. If the alarm does not sound immediately when one of the doors is opened, make sure that that door's pin switch is working properly and, when open, is consistently showing less than 1.5 volts if the vehicle has negative-switching door triggers or more than + 11 volts if the vehicle has positive-switching door triggers, also make sure the pin switch is connected to the correct wire. If not, then the door pin switch (or pin switches) is either defective or in need of cleaning.

#### Step 11.

### Test the trunk trigger circuit.

Arm the system, then use the key to unlock the trunk.

- Siren sounds immediately, parking lights flash repeatedly. This is the correct response, proceed to step 12. (You can silence the siren by pressing the button on the re mote con trol or disarm by pressing the twice.)
- ■Alarm does not sound immediately. If the alarm does not sound immediately, make sure that the trunk pin switch is working properly and, when open, is consistently showing less than 1.5 volts. Also make sure the trunk pin switch is connected to the correct wire. If not, the trunk pin switch must be thor oughly cleaned or re placed, or polarity may need to be inverted.

#### Step 12.

#### Test the AutoArming feature.

Turn the ignition "ON" and let the car idle for 10 seconds. Turn the ignition "OFF," then open and close the door. Wait five seconds.

**Parking lights flash twice.** 25 seconds later, the vehicle arms passively as **indicated by a rapidly flashing LED**. This is the correct response, proceed to step 13.

#### ■System does not passively arm.

- Make sure that AutoArming has been turned on using the programming instructions on page 15.
- Verify the door trigger connection (see step 10).

#### Step 13.

## Test the AutoArming Bypass feature.

Disarm the system. Turn the ignition to the "ON" position, then turn the ignition "OFF." ■One Chirp. This is the correct response, wait 30 seconds after the interior lights have

turned off to insure the system does not passively arm. Proceed to step 14.

## Step 14.

### Test remote control range.

Stand approximately 40 feet from the vehicle and use the remote control to arm and disarm the system.

- The Cyber 4 will respond with the previously noted in dications for arm ing and dis arm ing. If not:
  - Reposition the antenna as high up as possible under the dash or on the windshield and as far as possible from heavy wire looms and metal.
- Make sure that the remote control battery measures at least 3 volts while transmitting.
- Make sure that the volt age at the con trol unit be tween the 5A fused power line and each of the two ground lines meas ures at least 12.0 volts (if less, make sure both chassis grounds are solid; if the grounds are solid, the vehicle battery may need charging, servicing or replacement).

## System Checklist & Troubleshooting (Continued)

### Step 15.

# Distribute all necessary paperwork including: ■User's Manual must be given to the customer.

Adhere the Clifford window decals to the vehicle's windows after discussing placement with the vehicle owner.

Step 16.

Demonstrate Basic System Operation: Remote control operation:

- ■Arming/disarming and locking/unlocking
- ■Remote Valet Mode Activation
- ■Panic feature
- ■Accessory Activation
- ■AutoArming and AutoArming Bypass
- ■Immobilization
- ■Valet code entry
- ■User-programming mode

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Clifford systems are covered by one or more of these Clifford Electronics USA patents: 4,158,874; 4,233,642; 4,327,444; 4,383,242; 4,430,685; 4,845,464; 4,887,064; 4,890,108; 4,922,224; 4,997,053; 5,081,667; 5,146,215; 5,157,375; 5,467,070; 5,650,744 and other patents pending

## Toll-Free Technical Support Helpline: 1-800-444-4667

For the latest vehicle wiring information and for wiring diagrams and servicing information on older Clifford products: 24-hour AutoFax: 1-800-444-4667 24-hour dealer website: www.clifforddealer.com

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