

CLIFFORD[®]

Model
330X1/330X2/330X3

Installation Guide

NOTE: This product is intended for installation by a professional installer only! Any attempt to install this product by any person other than a trained professional may result in severe damage to a vehicle's electrical system and components.

Directed[®]
E L E C T R O N I C S

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N330X 2008-02

Bitwriter®, *Code Hopping™*, *Doubleguard®*, *ESP™*, *FailSafe®*, *Ghost Switch™*, *Learn Routine™*, *Nite-Lite®*, *Nuisance Prevention® Circuitry*, *Revenger®*, *Silent Mode™*, *Soft Chirp®*, *Stinger®*, *Valet®*, *Vehicle Recovery System®*, *VRS®*, and *Warn Away®* are all Trademarks or Registered Trademarks of Directed Electronics.



The Bitwriter® (p/n 998T)
requires chip version 2.5 or
newer to program this unit.

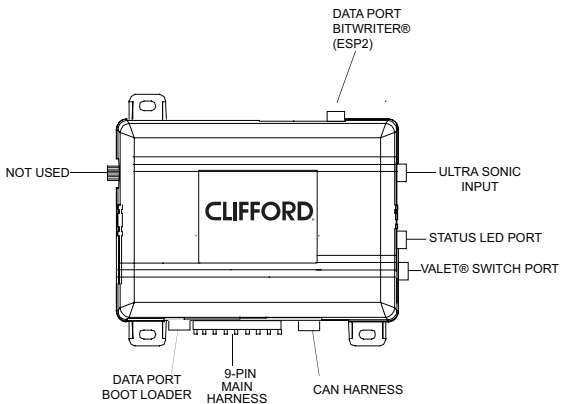
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What Is Included

- The control module
- 9-pin main harness
- 4-pin sensor harness
- Clifford Superbright status LED
- VALET program switch
- 3-pin CAN (control area network) harness
- 515ESP Smart Self-Power siren
- Ultra sonic sensors

Control Module



WARNING: Before beginning your install go to www.XPRESSVIP.com and be sure to print the LATEST corresponding installation manual for the firmware that is flashed to the platform you are using.

IMPORTANT! Before you begin the install process ensure the hardware matches the vehicle and verify the wires needed.

Installation points to remember

This product represents many years of research and development. It is very sophisticated and should be installed by experienced security installers only. Please do not attempt installation of this product without reading this guide.

This product is not intended for consumer installation and will have NO WARRANTY unless it is installed by an authorised dealer. Do not disconnect the battery if the vehicle has an anti-theft coded radio. If equipped with an airbag, avoid disconnecting the battery if possible.

IMPORTANT! Please read this entire installation guide before beginning the installation. The installation of this security system requires interfacing with many of the vehicle's systems. Many new vehicles use low-voltage or multiplexed systems which can be damaged by low resistance testing devices, such as test lights or logic probes. Test all circuits with a high-quality digital multi-meter before making the connections.

IMPORTANT! Many airbag systems will display a diagnostic code through their warning light after they lose power. Disconnecting the battery requires this code to be erased, a procedure that can require a trip to the dealer.

Before beginning the installation

- Check with the customer to determine the LED and Valet switch locations.
- Roll down a window to avoid being locked out of the car.

After the installation

- Test all functions. The “Using Your System” section of the Owner’s Guide is very helpful when testing.
- Carefully reassemble the under-dash trim panels.
- Inspect the engine compartment for tools that may have been left behind.

Tools required

This is a general list of tools required to complete the installation of this security system for most vehicles. Some vehicles may require additional tools.

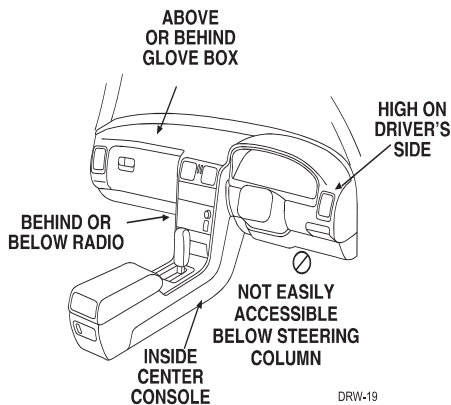
- Digital multi-meter
- Nutdriver and/or socket set
- Wire cutters/strippers
- Panel removal tool
- Solderless terminal crimpers
- Drill bit set
- Cordless power drill
- Phillips head screwdriver
- Torx driver set - Work light
- Soldering iron

Deciding on component locations

Control module

Some things to remember about where to mount the control module

- Never put the control module in the engine compartment!
- The first step in wiring a vehicle is removing the driver's side under-dash panel to access the starter and ignition wires. If the control module is placed just behind the driver's side dash it can easily be disconnected.
- When mounting the control module, try to find a secure location that will not require you to extend the harness' wires (they are 1.5 meters long). Keep it away from the heater core (or any other heat sources) and any obvious leaks.
- Some good control module locations are: Above the glove box, inside the center console, above the under-dash fuse box, or above the radio.



Status LED

Things to remember when positioning the LED:

- The LED can be top-mounted or flush mounted.
- If top-loading the LED with a bezel, the LED fits into a 5/16-inch mounting hole.
- If flush-mounting the LED from the back of a panel, drill a mounting hole using a 17/64 inch drill bit.
- Be sure to check for clearance prior to drilling the mounting hole.

Valet program switch

The Valet/Program switch should be accessible from the driver's seat. Consider how the switch will be used before choosing a mounting location. Check for rear clearance before drilling a 9/32-inch hole and mounting the switch.

Starter kill relay (Optional)

If the Starter kill relay or its connections are immediately visible when removing the under dash panel, they can easily be bypassed. Always make the relay and its connections difficult to discern from the factory wiring. Exposed yellow butt connectors do not look like factory parts, and will not fool anyone! For this reason, routing the starter kill wires away from the steering column is recommended.

Connecting your wires

Now that you have decided where each component will be located, you're going to find the wires in the car that the security system connects to.

IMPORTANT! Do not use a 12V test light to find these wires! Use a digital multimeter for all testing described in this manual.

Obtaining constant 12V

We recommend two possible sources for 12V constant: the fuse box, or the constant supply to the ignition switch. If you connect the module to the CAN bus wire at the OBD II plug, you can use the +12v wire existent in the plug. Always install a fuse within 12 inches of this connection.

IMPORTANT! Do not remove the fuse holder on the red (N1/3) wire. It ensures that the control module has its own fuse, of the proper value, regardless of how many accessories are added to the main power feed.

Finding a light wire

Find a (-) indicator light wire

Use the following procedure to find a (-) indicator light flash wire with your multimeter:

1. Set to DCV or DV voltage (12V or 20V).
2. Attach the (+) probe of the meter to a fused (+) source.
3. Probe the wire you suspect of being the indicator light wire. Usually, the area near the headlight/indicator light switch is an excellent area to start, as is the kick panel. Refer to the directechs.com for specific vehicle information.
4. Turn on the indicator lights. If your meter shows 12V, turn off the indicator lights and make sure it goes back to zero.

Main harness wire connection guide

N1/1	RED	(+) 12V Constant Power
N1/2	BLACK	(-) Chassis Ground Input
N1/3	RED/HITE	(-) 200mA Auxiliary Channel Output
N1/4	BLUE	(-) Instant Trigger Input
N1/5	ORANGE	(-) Ground While Armed Output
N1/6	WHITE	(-) 200 mA Light Flash Output
N1/7	BROWN	(+) Siren Output
N1/8	BLUE/WHITE	(-) Status/shunt Input
N1/9	BROWN/WHITE	(-) 200 mA Horn Output

N1/1 RED – (+) 12V constant power input: Before connecting this wire, remove the supplied fuse. Connect to the fuse box or the constant 12V supply to the ignition switch.

NOTE: Always use a fuse within 12 inches of the point you obtain(+)12V. Do not use the supplied fuse in the harness for this purpose. This fuse protects the module itself.

N1/2 BLACK - (-) chassis ground connection: Attach this wire to the kick panel or fire wall. There should be no paint, and no factory grounds. Do not use under dash bracing or steering columns as ground points.

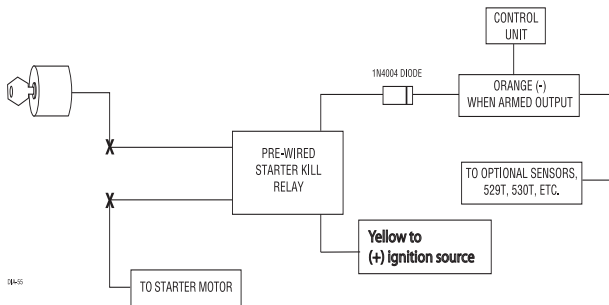
N1/3 RED/WHITE – (-) 200mA auxiliary channel: If programmed for an auxiliary output, this wire will provide a (-) pulse when the lock button is pressed twice within 3 and 7 seconds. This output can be used to control optional accessories (see programming features).

IMPORTANT! Never use this wire to drive anything but a relay or a low-current input! This transistorized output can only supply (-) 200mA and connecting directly to a solenoid, motor or other high current device will cause the module to fail.

N1/4 BLUE – (-) Instant trigger: This input will respond to a negative input with an instant trigger. Connect this wire to a pin switch for those vehicles that do not have hood status on the CAN Bus. (Check this on vehicle application list or on the web site).

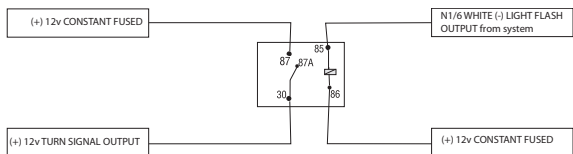
N1/5 ORANGE – (-) 500mA ground-when-armed output: This wire supplies a (-) 500mA ground as long as the system is armed. This output ceases as soon as the system is disarmed. This wire controls operation of the pre-wired starter-kill and can be used to control other optional accessories.

NOTE: If connecting the orange wire to control another module, such as 529T or 530T window controller, a 1- amp diode (type 1N4004) will be required. Insert the diode as shown below.



N1/6 WHITE – 200mA (-) light flash output: Connect this wire to the light wire turn or hazard signal of the vehicle. It will supply a (-) 200mA output. If a positive output is needed use this output to drive a relay. This output is to be used only for vehicles that do not have lights signals on the CAN Bus. (Check this on vehicle application list or on the web site).

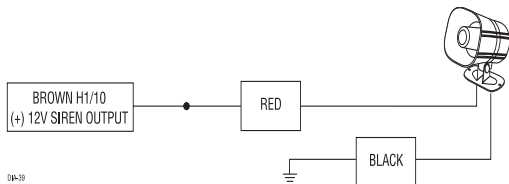
IMPORTANT! Never use this wire to drive anything but a relay or a low-current input! This transistorized output can only supply (-) 200mA and connecting directly to a high current device will cause the module to fail.



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(+) Turn signal relay - Wiring instructions if a positive parking light output is needed

N1/7 BROWN – (+) additional siren output: Connect this wire to the RED one from the siren. Connect the BLACK wire from the siren to (-) chassis ground, preferably at the same point you connect the control module's BLACK ground wire.

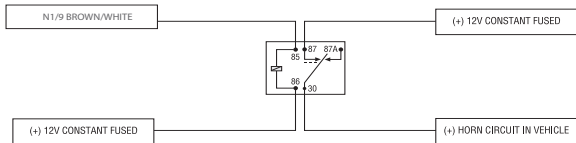


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N1/8 BLUE/WHITE– (-) Status/shunt input: Remote Start Input - Connect this input to the Remote Start Status Output of a remote start module (if used) when the ignition and sensors need to be bypassed during remote start active status.

N1/9 BROWN/WHITE – 200mA (-) Horn honk output: This wire supplies a 200mA (-) output that can be used to honk the vehicle's horn. It provides a pulsed output when the security system is armed/disarmed and in trigger sequence or in panic mode. In most vehicles with (-) horn circuits this wire can control the vehicle's horn without adding a relay. If the vehicle has a (+) horn circuit, an optional relay must be used to interface with the vehicle's horn circuit.

IMPORTANT! Never use this wire to drive anything but a relay or a low-current input! This transistorized output can only supply (-) 200mA. Connecting directly to a solenoid, motor or other high current device will cause the module to fail.



CAN harness

CAN harness wiring guide

N7/1	LIGHT GREEN	SW CAN BUS
N7/2	ORANGE/GREEN (BROWN/RED)	CAN BUS (high) FT (HS)
N7/3	ORANGE/BROWN (BROWN/BLACK)	CAN BUS (low) FT (HS)

N7/1 LT GREEN – SW CAN bus (present only in Single Wire CAN Security Systems 330X2)

Connect this wire to the vehicle CAN wire. (Check for colour and location on the vehicle application list or on the website).

N7/2 - ORANGE/GREEN or BROWN/RED – FT CAN Bus High or HS CAN bus High (present only in Fault Tolerant/High Speed CAN Security Systems such as 330X1 for FT and 330X3 for HS, respectively.)

Connect this wire to the vehicle CAN High wire. (Check for colour and location on the vehicle application list or on the website).

N7/3 ORANGE/BROWN or BROWN/BLACK – FT CAN Bus Low or HS CAN bus Low (present only in Fault Tolerant or High Speed CAN Security Systems such as 330X1 for FT and 330X3 for HS, respectively.)

Connect this wire to the vehicle CAN Low wire. (Check for colour and location on the vehicle application list or on the website).

Plug-in harnesses

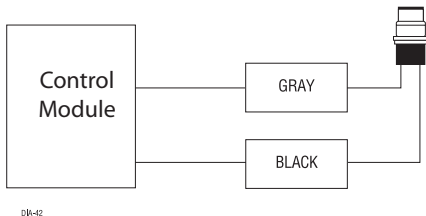
Super bright status LED

The super bright LED operates at (+) 2V DC. Make sure the LED wires are not shorted to ground as the LED will be damaged. Multiple LEDs can be used, but they must be wired in series. The LED can be top-mounted or flush-mounted. If top-loading the LED with a bezel, the LED fits into a 5/16-inch mounting hole. If flush-mounting the LED from the back of a panel, drill a mounting hole using a 17/64-inch drill bit. Make sure you check for clearance prior to drilling the mounting hole.



Valet program switch

The Valet/Program switch should be accessible from the driver's seat. It plugs into the blue port on the side of the unit. The switch is coded for protection so it need not be hidden. Consider how the switch will be used before choosing a mounting location. Check for rear clearance before drilling a 9/32-inch hole and mounting the switch.



Data port- Bitwriter

The black three-pin port can be used for programming the unit using the Directed Bitwriter, a hand held programming tool. The Bitwriter also allows programming of the features that are not available in the features menus. This plug is also used for connecting the 515ESP Smart Self-Power siren.

Data port – Bootloader

The white four-pin port is use to connect USB Bootloader adaptor and computer to download and flash vehicle specific firmware. A dedicated software has to be install on your computer that can be downloaded free of charge from the Directed Accessories web site www.expresskit.com.

Four-pin sensor harness

Used to connect Ultrasonic sensors

The Ultrasonic sensor is used to provide coverage of a vehicle's interior cabin area. The sensors detect movement inside the vehicle by sensing air disturbance. They should trigger the alarm if a thief has gained access to the interior of your vehicle.

RED wire

The red wire supplies constant power to the Ultrasonic sensor.

BLACK wire

The black wire supplies ground to the Ultrasonic sensor.

BLUE, GREEN wires

The blue and green wires are multiplex inputs. They are both tied to the same zone. If an input of less than 0.8 seconds is supplied to either wire the Warn-Away response will occur. An input longer than 0.8 seconds to either wire will initiate the triggered sequence and report zone 4. This port can be used for sensors such as: glass break or tamper sensor, tilt or field disturbance sensor.

Zones

Zone number	Trigger Type	Input Description
1	Instant Trigger	Bonnet and/or boot switches (detected on the vehicle's CAN bus).
2	Multiplex Input	N/A
3	Two-Stage, progressing from warning to full alarm	Door switch (detected on the vehicle's CAN bus)
4	Multiplex	Ultrasonic sensor. Inputs shorter than 0.8 seconds will trigger Warn Away® response, while inputs longer than 0.8 seconds will instantly trigger full alarm sequence
5	Instant Trigger	Ignition input (detected on the vehicle's CAN bus)
6	Instant Trigger	BLUE N1/4 (-) input

Note: The Warn Away® response does not report on the LED

Long-term event history

The control module will store the last two triggers in memory that are not erased when the ignition is turned on. This can be helpful for troubleshooting false alarm reports. To access the event history use the following procedure:

1. Turn the ignition switch off and press and hold the VALET® button.
2. While holding the VALET® button turn the ignition On.
3. Release the VALET® button.
4. Within 5 seconds press and release the VALET® button.

The LED will flash in groups indicating the last two zones reported were triggered. For example, if zone 2 and 3 were the last two zones to be triggered the LED will flash two times followed by a pause and then flash three times followed by a pause.

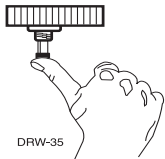
NOTE: The Warn-Away response does not report on the LED.

The Long Term Event History will exit if the ignition is turned off or there is no activity for 60 seconds.

Rapid resume logic

The current state of the alarm will be stored in non-volatile memory. If power is lost and then reconnected, the system will recall the stored state from memory. This applies to all states of the system including arm, disarm, and VALET® mode. If the unit was powered down while triggered, the control unit will continue to sound the siren (honk the horn) after power up until the unit is recognizing the vehicle again. If at least one zone is still active after this, the unit will sound the siren/horn cycle three times, if not disarmed in the meantime. If no zone is active after the vehicle was recognized, the siren will stop after one siren/horn cycle, if not disarmed in the meantime.

NOTE: The unit will not sound the siren (honk the horn) after power up, if the panic mode was active when powered down.



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Feature programming

The feature programming procedure is used to access and change any of the feature settings in the three menus below. The feature settings can be accessed and changed by using one of the following:

- The VALET® button to enter the feature programming procedure.
- Use of Directed Electronics Bitwriter® is recommended. Expanded programming options are only available when using the Directed Electronics Bitwriter®.

NOTE: If Feature Programming Lockout is set to ON, all features will be locked and can ONLY be accessed by using a Bitwriter®.

To enter feature programming procedure:

1. Open a door.
2. Turn the ignition on and then off.
3. Within 5-seconds, press and HOLD the Valet® button. After 3-seconds, the siren/horn will sound once and the LED will flash once to indicate entry into the Menu 1 “Basic User’s Features”.

To select the Menu 2 “Advanced User’s Features”, continue to hold the Valet® button until the siren/horn sounds twice and the LED flashes twice. Repeat these steps to select Menu 3 “Installer Features”. Once the desired menu is selected, the user releases the VALET® button and then proceeds to the next step.

4. Within 25 seconds, press and release the VALET button the number of times corresponding to the desired feature listed below. Then press the Valet® once more time and hold. The siren/horn will sound the number of times equal to the feature number selected and the LED will continuously flash the same number with 2 seconds pause until you move further to the next step.
5. While holding the VALET® button, assign the selected feature to a factory button by either pressing: Lock or unlock for 1 chirp setting (LED ON) or pressing Lock/Unlock again for 2 chirps setting (LED OFF).

Note: For features with more than 2 options pressing Unlock multiple times will toggle through all the rest of the settings and emit the corresponding number of chirps.

Once a feature is programmed:

- Additional features can be programmed.
- The other feature menu can be selected.
- The feature programming procedure can be exited.

Accessing another feature:

- Release, then press and release the VALET® button the number of times to advance from the feature just programmed to the next feature desired.
- Press and **hold** the VALET® button once more.
- The siren/horn will chirp to confirm the feature selected.

Accessing another menu:

- Release, then press and hold the Valet® button.
- After 3 seconds, the unit will advance to the next menu and the siren/horn will sound a number of times equal to the number of the selected menu.

Exiting feature programming :

- Close the opened door
- Turns the ignition On.
- No activity for 15 seconds except when selecting the settings.
- Press and release the VALET® button too many times.

Menu 1 – Basic user's features

Factory default settings are shown in bold.

Feature Step	One chirp	Two chirps
1-1	ZAP (reset default settings)	-
1-2	Confirm Chirps ON (soft chirp on 515ESP)	OFF
1-3	Horn function (full trigger only)	Siren function - chirp length (20mS, 30mS, 40mS, 50mS)
1-4	Siren duration - 30 seconds	Siren duration - 60 seconds

Menu 2 – Advanced user’s features

Factory default settings are shown in bold

Feature Step	One chirp	Two chirps
2-1	Light confirmation ON	OFF
2-2	Parking light supervision ON	Parking light supervision OFF
2-3	Light Output (indicator lights)	Light Output (turn signal)
2-4	Automatic re-arming On (60S)	Automatic re-arming OFF

Menu 3 - Installer features

Factory default settings are shown in bold

Feature Step	One chirp	Two chirps
3-1	Nuisance Prevention® Circuity (ON)	Nuisance Prevention® Circuity OFF
3-2	Arm function (Arm Only)	Arm function (Grouped Multi-level Arming-zones 2 & 4, Panic, AUX Ch)
3-5	Ground When Armed in VALET® (On)	Ground When Armed in VALET® (Off)

Bitwriter features

Factory default settings are shown in bold

Feature	Description
Siren duration	1-180 seconds (30 seconds)
Feature programming (unlocked)	Feature programming (locked)
	PIN Code Digit 10 to 9 (Default N/A) PIN Code Digit 20 to 9 (Default N/A) PIN Code Digit 30 to 9 (Default N/A) PIN Code Digit 40 to 9 (Default N/A)
ZAP	Reset all to default

Features description

Menu 1 – Basic User's Features

1-1 ZAP (Reset all features to default): This setting will reset all the features to factory default, except the 4-digit PIN code.

1-2 CHIRPS **ON/OFF**: This setting controls the systems arming & disarming chirps.

- Chirps ON (default): The system will emit chirps when arming and disarming.
- Chirps OFF: the system will NOT emit chirps when arming and disarming.

1-3 HORN FUNCTION (FULL ALARM ONLY)/**SIREN FUNCTION (20mS, 30mS, 40mS, and 50mS)**: This setting controls if the output used by the alarm when fully triggered is the horn or the siren (in the last case different timing options for chirps can be selected).

1-4 SIREN DURATION **30/60 SECONDS**: This setting changes the siren output from 30 seconds to 60 seconds duration when in the panic mode and when the system is fully triggered. The siren duration can also be programmed from 1-180 seconds in 1 second increments using the Bitwriter®.

Menu 2 – Advanced user's features

2-1 LIGHT FLASH CONFIRMATION **ON/ OFF**: This setting control the light flash confirmation of the security system on arming or disarming. When set ON, the security system will control the light confirmation of arming/disarming of the vehicle. When set OFF, the security system will not control the lights confirmation when arming/disarming the vehicle (the original confirmation light of the vehicles will be the only one present on arming/disarming). Note: When (-) input blue/white status shunt is active, the indicator lights flash in case it is used for remote start.

2-2 PARKING LIGHT SUPERVISION **ON/OFF**: When set ON the indicator lights will illuminate for 30 seconds after disarming the system, or turning off the ignition. The indicator lights will be switch OFF during this time if the system is armed again or the ignition becomes ON.

2-3 LIGHT OUTPUT (Indicator lights/**TURN SIGNAL**): This settings control whether the indicator lights or turn signal will be used while the system is triggered or as confirmation lights.

2-4 AUTOMATIC RE-ARMING **OFF/ON (60S)**: This settings control whether the system will re-arm if no door was opened after 60 seconds or not. This will not include locking of the doors or arming the original security system (if present). When set ON, the system will arm only if Lock button is pressed. This option is ignored if the vehicle has automatic rearming feature ON from the factory.

Menu #3 – Installer features

3-1 NUISANCE PREVENTION® CIRCUITRY (NPC®) **ON/OFF**: These settings control the number of times a sensor can trigger the system within a given time period.

•**NPC ON** : In this setting any source (sensor or trunk switch) that triggers more than 10 times within a 1-hour period will be bypassed for a minimum of 1 hour. If within that 1 hour the systems see's the same source (sensor or trunk switch) trigger again it will not activate the siren/horn and will restart the 1 hour timer.

NOTE: Door switches and the ignition switch are exempt to the description above.

•**NPC OFF**: (Default) In this setting the sensors will trigger repeatedly until the system is disarmed.

3-2 ARM FUNCTION **OFF-ARM ONLY/** (Grouped **MULTI-LEVEL ARMING/PANIC/AUX CH**): These settings change the system ability to activate multi-level arming, panic or auxiliary channel while pressing the Lock button.

•When set **ARM ONLY**, the system will be re-armed at successive presses on lock button.

•When set **PANIC**, the system will switch on panic function while the user press lock button for the second time. Panic will cease when arming/disarming with original remote.

•When programmed on **AUX CH**, the system will activate the auxiliary channel when pressing the Lock button for the second time.

•When programmed on **Multi-level Arming**, the system will activate the Multi-level Arming function when pressing the Lock button for the second time.

NOTE: The second press must be between 3 to 7 seconds from first press.

Grouped multi-level arming

After arming, press the LOCK button again. The indicator lights or turn signal will flash 3 times, the siren/horn will chirp 3 times and all sensor warn-away and full alarm zones will be bypassed. All remaining zones are still active (door, hood, trunk, and ignition).

AUX channel

After arming, press the LOCK button again. The security system will activate the auxiliary output (N1/3) and will start bypass all sensor zones for 30 seconds. During the first 3 seconds the security system will monitor the trunk status and/or N1/8 Blue/White- (-) Status input: If either input is active, the security system will bypass all sensors and the trunk when open, and flash the indicator lights. After the trunk is closed the sensors will be bypassed for another 20 seconds.

WARNING! If the AUX CHANNEL option is used for Remote Start activation the following must be taken into consideration:

- The Remote start status output of the remote start module has to be connected to the N1/8 Blue/White - (-) Status input in order for ignition and sensors to be bypassed during remote start.

After the Status input is deactivated, the system will bypass sensors for another 20 seconds and the ignition for 5 seconds.

- During the remote start the module will flash the lights.

- During the remote start, the unit will ignore any activation of the OEM remote start (if present) from the OEM transmitter.

- In some vehicles such as Honda and Acura, the keyless entry remotes are inactive while the vehicle is running. You have to use the key to enter the running vehicle if the system is install one of those vehicle. Turning the key in the key cylinder will disarm the system. You can not shut down the remote start with the OEM transmitter either.

3-5 GROUND WHEN ARMED IN VALET® ON/OFF: Provides On/Off programming for the Ground When Armed wire output when locking the vehicle in VALET® mode.

Bitwriter Features

SIREN DURATION (1-180S): The Bitwriter® can adjust the siren duration setting anywhere from 1 second to 180 seconds in length.

FEATURE PROGRAMMING (UNLOCKED/LOCKED):

- UNLOCKED** (default): In this setting the features can be changed using the Valet switch and the vehicle OEM transmitter.

- LOCKED**: In this setting the features can not be changed using the Valet switch and the vehicle OEM transmitter. If LOCKED, the unit will emit 1 long chirp when trying to enter feature programming.

ZAP FUNCTION This button will reset all the features to default.

VALET® Mode

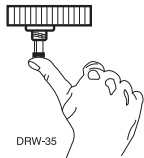
To prevent the system from arming, the system can be determined to enter in VALET® mode. To enter or exit VALET® mode, use the VALET® switch as follows:

Turn the Ignition On, then Off.



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Within 10 seconds, press and release the VALET® button. The LED will come On if you have entered VALET® mode. To exit VALET® mode, repeat the steps above. The LED will turn Off when VALET® mode is exited.



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Special Features

Initialisation:

The Unit has an initialisation procedure that verifies that the unit is properly connected to the CAN bus. You have to connect the unit to the CAN bus and then power it up. It has to pass the initialisation procedure to function normally. After connecting the CAN bus and powering up, switch On the ignition for the procedure to be completed. Each time power is disconnected the initialisation procedure starts again.

The LED will visually report the status of the initialisation procedure.

LED Flashes	Description
LED blinks three digits with 2 seconds break between digits	Firmware revision
LED ON for 5 seconds and stops	Initialisation failed. Remove power and retry
LED blinks shortly every 3 seconds	Hardware initialisation passed, waiting for ignition to be turned ON
LED blinking rapidly	Power up initialisation in process
LED ON for 2.5 seconds, then OFF for 2.5 seconds, then blinks shortly a number and stops	- error 1 = vehicle not recognized - error 2= newest firmware for the vehicle software (check the website for downloading new firmware)
LED OFF immediately after blinking rapidly	Initialisation passed and it enter normal operation

Vehicle application charts

The following charts lists all of the vehicles covered by each of the platforms as of 01-2008. Firmware versions for various vehicle platforms are available through the Directed Vehicle Interface Program (VIP) & Bootloader.

Note: Please visit www.xpreskit.com for online VIP detailed installation instructions and troubleshooting guide.

330X Vehicle Application Chart - Fault Tolerant (a)

Make	Brand	Year	Operates Parking Lights	Hood Switch available through CAN-BUS	VIN Code (Note*1)
VW	Caddy	2005 -2007	•	•	2K
	Touran	2003 -2007	•	•	1T
	Passat	1996 - 2005		•	3B
	New Passat	2005 -2007	•	•	3C
	Golf/Jetta	2005 -2007	•	•	1K
	Touareg	2003 -2007	•	•	7L
	EOS	2006 -2007	•	•	1F
	Polo Mark IV	2002 - 2005	•	•	9N
	Polo Mark IVF	2005 -2007	• (only Turn Signal)	•	9N3
Transporter	2004 -2007	• (only Turn Signal)	•	N/A	
Porsche	Cayenne	2003 -2007	•	•	9P
Seat	Ibiza		• (only Turn Signal)		
	Altea	2004 -2007	•	•	5P
	Toledo	2004 -2007	•	•	5P
	Leon	1999 -2007			1M
	New Leon	?	•	•	1P
	Cordoba	2002 -2007	• (only Turn Signal)	•	N/A
Skoda	Octavia Tour	1996 -2007		•	1U
	Octavia II	2004 -2007	•	•	1Z
	Superb	2002-2007		•	3U
	Fabia	1999 -2007		•	N/A
	New Fabia	2007	• (only Turn Signal)	•	N/A
	Roomster	2006 -2007	• (only Turn Signal)	•	N/A
Audi	A3	2004 -2007	•	•	8P
	A4	2002 -2007	•	•	8E
	A4 Cabrio	2007	•	•	8H
	A6	2004 -2007	•	•	4F
	A6 Allroad	2007	•	•	4F
	Q7	2006 -2007	•	•	4L
	TT	2007	•	•	8J
BMW	1 Series	2004 -2007			E81/E87
	3 Series				
	5 Series	2004 -2007			E60/E61
	Idea	2004 -2007			N/A

330X Vehicle Application Chart - Fault Tolerant (b)

Fiat	Grande Punto	2005 -2007			N/A
	Punto	2003 -2007			N/A
	Stilo	2001 -2007			N/A
	Croma	2005 -2007			N/A
	Ducato	2006 -2007			N/A
	Doblo	2001 -2007			N/A
Alfa	159	2005 -2007			N/A
	Brera	2005 -2007			N/A
	147	2000 -2007			N/A
Lancia	Ypsilon	2003 -2007			N/A
	Musa	2004 -2007			N/A
Peugeot	307	2003 -2007			N/A
	407	2004 -2007			N/A
Chrysler	300C	2005 -2007	•		C3K/C3J
	Sebring	2006 -2008	•		C3L
	Aspen	2007	•		A8H
	Pt Cruiser	2001 -2007			A4F
Dodge	Charger	2006 -2007	•		B3K
	Magnum	2005 -2007	•		D4F
	Durango	2004 -2007	•		D4H
	Dakota	2006 -2007			D7H
	RAM	2006 -2007			D7H
	Avenger	2006-2008			B3L
Jeep	Commander	2006 -2007	•		J8H
	Grand Cherokee	2005 -2007	•		J4H
	Compass	2006 -2007			J8F
Mercedes	A Classe	2004 -2007	•		W169
	B Classe	2005 -2007	•		W245
	C Classe	2000 -2007	•		W203
	E Classe	2003 -2007	•		W211

NOTE*1

For Audi/Seat/Skoda/Porsche/VW the two digits are the 7th and the 8th. For example: Audi A6 has xxxxxx4F.

For Chrysler/Dodge/Jeep the digits are the 2nd, the 3rd and the 4th. For example: Dodge Charger has xB3K.

For Mercedes the digits are the 2nd, the 5th, 6th and 7th. For example: Mercedes C Classe has Wxx203.

330X Vehicle Application Chart - Single Wire

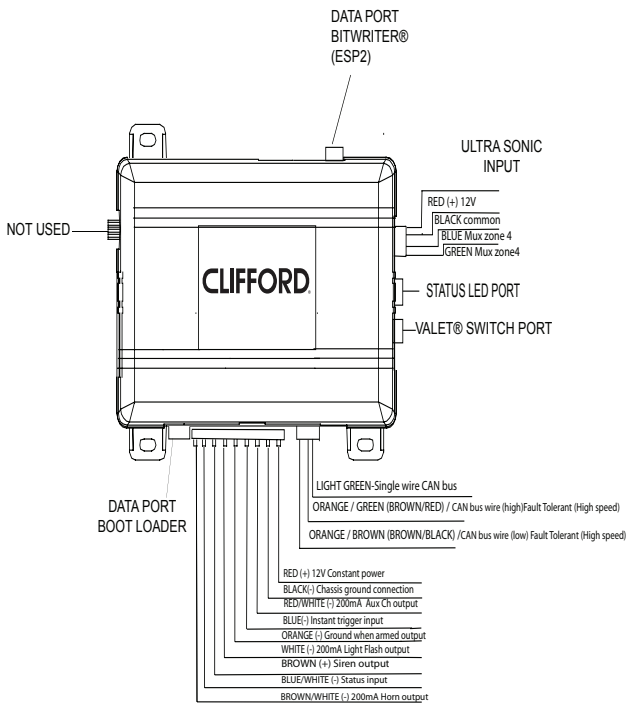
Make	Brand	Year	Operates Parking Lights	Hood Switch available through CAN-BUS	VIN Code (Note*3)
Honda	Accord	2004 -2007	•	•	N/A
	Civic	2006 -2007	•	• note1	N/A
	CR-V	2006 -2007	•	•	N/A
	Ridgeline	2006 -2007	•	•	N/A
	Odyssey	2006 -2007	•	•	N/A
Acura	TL	2006 -2007	•	•	N/A
	TSX	2006 -2007	•	•	N/A
	CSX	2006 -2007	•	•	N/A
	RSX	2006 -2007	•	•	N/A
Chevrolet	Impala	2006 -2007		•	1W
	Monte Carlo	2006 -2007		•	1W
	Tahoe	2006 -2007		•	NF
	Avalanche	2006 -2007		•	NF
	Equinox	2006 -2007		•	ND
	Suburban	2006 -2007		•	NF
	Malibu	2006 -2007		• note 2	1Z
	HHR	2006 -2007		• note 2	ND
	Cobalt	2006 -2007		• note 2	1A
	Silverado	2006 -2007		•	CE
Captiva	2006 -2007			1C	
GMC	Sierra	2006 -2007		•	TE
	Yukon	2006 -2007		•	KF
Cadillac	Escalade	2006 -2007		•	YF
	STS	2006 -2007		•	6D
	DTS	2006 -2007		•	6K
	SRX	2007		•	YE
Buick	Lucerne	2006 -2007		•	4H
	G6	2006 -2007		• note 2	2Z
Pontiac	Solstice	2006 -2007		• note 2	2M
	Torrent	2006 -2007		• note 2	N/A
Saturn	Aura	2006 -2007		• note 2	8Z
	Sky	2006 -2007		• note 2	8M
	Outlook	2006 -2007		• note 2	ZE
Vauxhall/ Opel	Astra H	2006 -2007	•	•	
	Zafira	2006 -2007	•	•	
	Vectra C	2004 -2007	•	•	
	Corsa D	2006 -2007			

NOTE*1	Only for cars having OEM security system
NOTE*2	Only for cars having OEM remote start
NOTE*3	For GM the digits are the 3rd and the 4th: For example Chevrolet Malibu has xx1Z.

330X Vehicle Application Chart - High Speed

Make	Brand	Year	Operates Parking Lights	Hood Switch available through CAN BUS	VIN Code (Note*1)
Renault	Clio III	2005 -2007	•		N/A
Nissan	Pathfinder	2005 -2007	•		N/A
	Navara	2005 -2007	•		N/A
	Micra	2002 -2007			N/A
Infiniti	G35x	2003 -2007		•	N/A
	M35x	2006 -2007		•	N/A
Ford (EU)	Fiesta	2006 -2007			N/A
	Mondeo				
	Focus	2006 -2007			N/A
Mazda	3	2006 -2007			N/A
Dodge	Nitro	2007-2008			?
Jeep	Wrangler	2007-2008			

NOTE*1 For Chrysler/Dodge/Jeep the digits are the 2nd, the 3rd and the 4th. For example: Dodge Charger has xB3K.



Directed[®]
E L E C T R O N I C S

Directed Electronics, Inc.

Vista, CA 92081

www.directed.com

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