

Quick Reference Install Guide

Vehicle Security System

Models 3105 and 3305

Wiring Connections

Channel 2 Output: Connect to the vehicle negative (-) trunk release relay or other low current device

12V Constant Power: Remove the inline fuse before connecting to a wire that has (+) 12V at all times

Siren Output: Connect to the (+) wire on the siren

Ignition Input: Connect to a wire that has (+) 12V while the key is in the run and crank positions

Chassis Ground: Connect to a scraped (bare) metal surface in the driver kick

Door Trigger Input: Connect to a wire that goes to (+) 12V when any door is opened

Instant Trigger Input: Connect to a wire that goes to ground (-) when the hood or trunk are opened

Door Trigger Input: Connect to a wire that goes to (-) ground when any door is opened

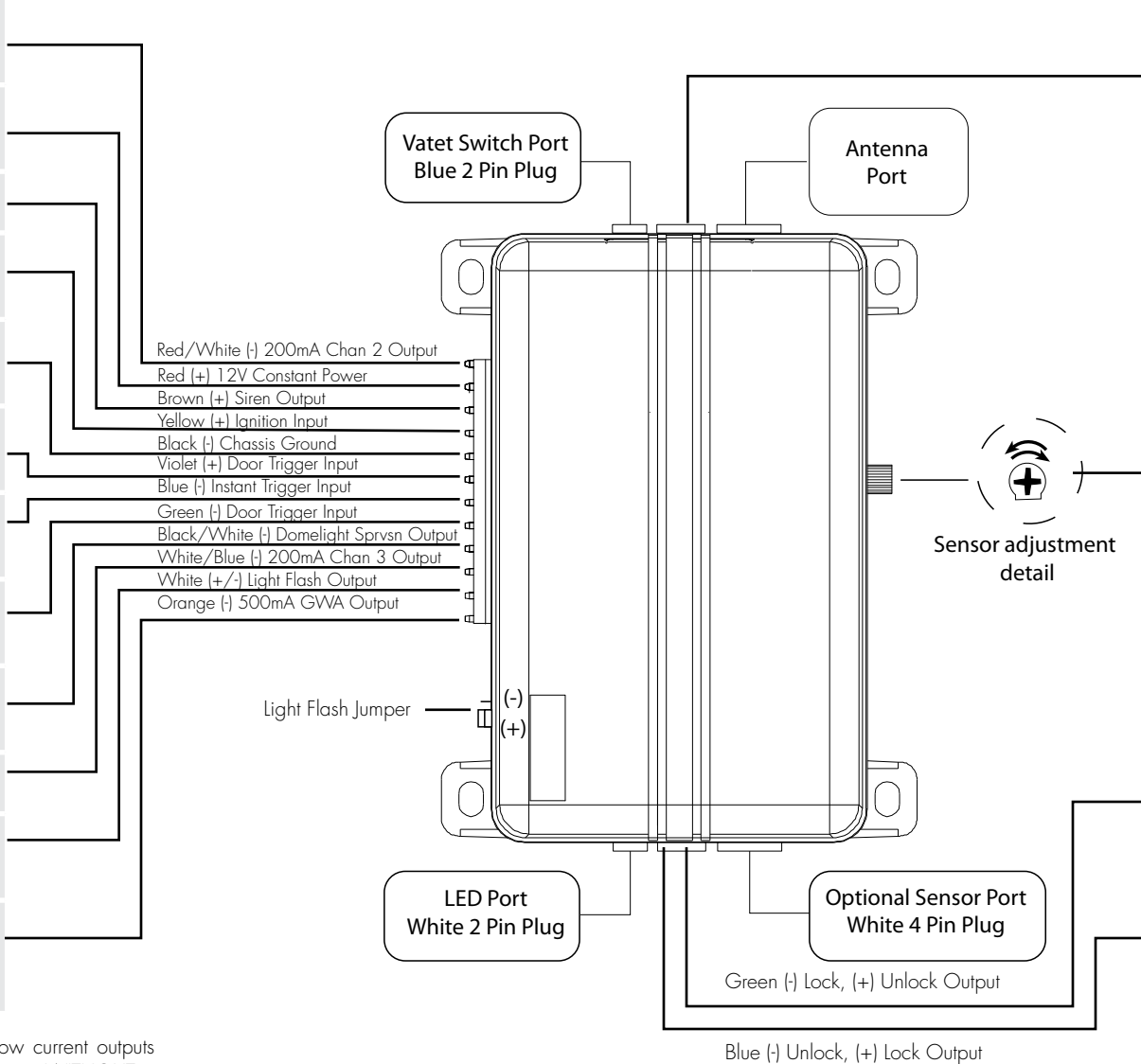
Domelight Supervision Output: Connect to a (-) wire that will turn on the domelight

Channel 3 Output: Connect to an auxiliary relay or low current device

Light Flash Output: Connect to the vehicle parking light wire. This wire is programmable + or -

Ground When Armed Output: Connect to a starter interrupt relay or other accessory that requires a GWA

Important: NEVER connect 200mA low current outputs directly to a motor or high current device WITHOUT a relay,



Programming Port: The 998T Bitwriter can be connected to this port for programming feature options. SmartStart can be connected to this port to operate the system by Smart-phone.

Adjusting the shock sensor pot:

1. Securely mount the CPU (in a safe location) before adjusting
2. Turn the sensor adjustment clockwise to increase sensitivity, turn counterclockwise to decrease sensitivity

(-) Lock, (+) Unlock Output: Connect to a wire that pulses ground to activate the vehicle lock relay or to a wire that pulses (+) 12V to activate the vehicle unlock relay

(-) Unlock, (+) Lock Output: Connect to a wire that pulses (-) ground to activate the vehicle unlock relay or to a wire that pulses (+) 12V to activate the vehicle lock relay

Remote control configuration

4- button remote control configuration

Feature	Description
	Arm: Lock the doors and arm the vehicle
	Disarm: Unlock the doors and disarm the vehicle
AUX	Channel 2/Silent Mode: Activate Silent Mode and Auxiliary functions
	Panic
	Channel 3: Press together to control an Auxiliary output

Guide Translations

For a Spanish or French version of the Installation Guide, please download it from www.directechs.com under "Resources".

Traducción de los manuales:
Para obtener una versión en Español o Francés del Manual de Instalación, descárguela de www.directechs.com bajo el título "Recursos" ("Resources").

Traduction du guide:
Pour une version française ou espagnole du guide d'installation, veuillez le télécharger à www.directechs.com sous «Resources».

Bitwriters with a date code of 6a or older require an IC upgrade (p/n 998M). Some bitwriters with a date code of 6B do not require the IC upgrade, refer to tech tip # 1112 for more information.



The Bitwriter® (p/n 998U) requires chip version 2.4 or newer to program this unit.

More information and full Installation Guide can be found online at: www.directechs.com

DIRECTED

Programming System Features

The System Features Learn Routine dictates how the unit operates. It is possible to access and change most of the feature settings using the Valet switch/Control button.*

*Depending on which model is installed, the system uses either an external Valet switch and an external Status LED or a Control Center with an onboard Control button (Valet Switch) and Status LED.

1. **Open** a door.
2. **Turn** the ignition on, then off.
3. **Select** a Menu. **Press** and **hold** the Valet switch/Control button. The number of siren chirps indicates the menu number. 1 chirp indicates menu 1, 2 chirps - menu 2.
4. When the desired menu chirps are heard, **release** the Valet switch/Control button.
5. **Select** a Feature. **Press** and **release** the Valet switch/Control button the number of times corresponding to the feature you wish to change. Then **press** and **hold** one more time to select the features.
6. **Program** the Feature. While holding the Valet switch/Control button, you can program the feature using the remote control.

To change the desired options press;  = one chirp setting, while  = two chirps setting.

Once a feature is programmed:

- Other features can be programmed within the same menu
- Another menu can be selected
- The learn routine can be exited if programming is complete

To access another feature in the same menu:

1. **Press** and **release** the Valet switch/Control button the number of times necessary to advance from the feature you just programmed to the next one you want to program.
2. Then **press** the Valet switch/Control button once more and **hold** it.

To select another menu:

1. **Press** and **hold** the Valet switch/Control button.
2. After 3 seconds, the unit advances to the next menu and the siren chirps, indicating which menu has been accessed.


The learn routine exits if any of the following occurs:

- The open door is closed
- The ignition is turned On
- There is no activity for 20 seconds
- The Valet switch/Control button is pressed too many times

Bitwriter - Only Options



If programming with the Bitwriter®, the learn routine can be locked or unlocked. If the learn routine has previously been locked, it must be unlocked with Bitwriter® - this cannot be done manually with the Control button.

The Bitwriter®  gives you access to a wider range of system options. These features and the adjustments that may be programmed are described in the table below. Default settings are in **bold** type.

Menu Item	Feature	Default	Option 2
1	Ignition Controlled Lock	Ignition Controlled Lock ON	Ignition Controlled Lock OFF
2	Ignition Controlled Unlock	Ignition Controlled Unlock ON	Ignition Controlled Unlock OFF
3	Siren Duration	30 second siren duration	1-180 seconds (in 1 second increments)

Feature Menus

Default factory settings are in **bold** type.

Menu 1: Basic Features

Feature #	1- chirp setting	2- chirp setting
1-1	Active arming	Passive arming
1-2	Chirps ON	Chirps OFF
1-3	Ignition controlled door locks ON	Ignition controlled door locks OFF
1-4	Active locking only	Passive locking
1-5	Panic w/ignition ON	No Panic w/ignition ON
1-6	0.8 second door lock pulses	3.5 second door lock pulses
1-7	Forced passive arming ON	Forced passive arming OFF
1-8	Automatic Engine Disable ON	Automatic Engine Disable OFF
1-9	Armed When Driving (AWD)	Vehicle Recovery System (VRS)
1-10	Code Hopping™ ON	Code Hopping OFF

Menu 2: Advanced Features

Feature #	1- chirp setting	2- chirp setting
2-1	Siren	Horn Honk
2-2	30 second siren duration	60 second siren duration
2-3	NPC® ON	NPC OFF
2-4	Progressive door trigger	Instant door trigger
2-5	Valet switch/Control button input: 1 pulse	Valet switch/Control button input 2-5 pulses
2-6	Door trigger error chirp ON	Door trigger error chirp OFF
2-7	Ignition controlled domelight ON	Ignition controlled domelight OFF
2-8	Single unlock pulse	Double unlock pulse
2-9	Single lock pulse	Double lock pulse
2-10	Channel 3: Validity	Channel 3: latched/latched reset with ignition/30- second timed/second unlock output*
2-11	Comfort Closure (ON, 20 sec)	Comfort Closure (OFF)

*Second unlock available only if feature 2-8 is programmed to single pulse.

Remote control learn routine

The system comes with two remote controls that have been taught to the control module. The control module can store up to four different remote control codes in memory. The button configurations can be changed on the remote control, follow the procedure below and use the table to configure it for an associated function.

If the system was previously programmed using the 998T Bitwriter, the learn routine may be locked. If the siren generates one long chirp when attempting to program the unit, the learn routine is locked and must be unlocked using the 998T Bitwriter before proceeding.

1. **Open a door.** The 12 pin harness GREEN wire or the 12 pin harness VIOLET wire must be connected.
2. **Turn the ignition on.** The 12 pin harness YELLOW wire must be connected.
3. **Select a channel.** Press and release the Valet switch/Control button the number of times necessary to access the channel you want, and then press and hold the Valet switch/Control button once more. The siren chirps and the LED blinks the number of times corresponding to the channel accessed.
4. While holding the Valet switch/Control button, press the button on the remote control you want to assign to the selected channel. The unit chirps indicating successful programming.
Note: It is not possible to teach a remote control button to the system more than once.

Note: When programming channels 1- 6, a button must be taught to the unit in Channel 1 or Channel 5 before programming remaining channels.

Channels 2, 5, 6: Use Channels 2, 5, and 6 to assign the arm, disarm and panic functions to buttons on the remote control. Teaching a button to Channel 5 or Channel 1 erases some memory information, and auxiliary functions may have to be reprogrammed.

Channel/ Function	
Channel #	Function
1	Arm/Disarm
2	Panic Only
3	Silent mode, Remote Valet, Trunk Release
4	Remote starter or other accessories
5	Arm Only
6	Disarm Only
7	Auto learn standard 4- button configuration*
8	Auto learn 3- button configuration*
9	Delete all transmitters**

* For auto learn configurations, see Remote control (transmitter) configurations section of this guide.

** The delete all transmitters option also resets the programmed settings to their default factory state.

The learn routine exits if any of the following occurs:

- The open door is closed
- The ignition is turned off
- There is no activity for 15 seconds
- The Valet switch/Control button is pressed too many times

Long Term Event History

The system stores the last two full triggers in memory. These are not erasable. Each time the unit sees a full trigger, the older of the two triggers in memory is replaced by the new trigger. To access long term event history:

1. With the ignition Off, **press** and **hold** the Valet switch/Control button.
2. **Turn** the ignition On.
3. **Release** the Valet switch/Control button.
4. Within 5 seconds, **press** and **release** the Valet switch/Control button. The status LED flashes in groups indicating the last two zones that triggered the unit for 1 minute or until the ignition is turned off. Refer to table of zones.

Note: The Warn Away triggers are not stored to memory and is not reported.

Table of Zones

A zone is represented by the number of status LED flashes used by the system to identify a particular type of input.

Zone	Description	Input Description
1	Optional trigger input	12 pin harness Blue wire
2	Instant trigger: a heavier impact detected by the shock sensor	Onboard Shock Sensor.
3	Door switch trigger	12 pin harness Green or Violet wire
4	Instant trigger: For optional sensors	Optional Sensor Port
5	Ignition trigger	12 pin harness Yellow wire