

# 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 or horn.

**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.

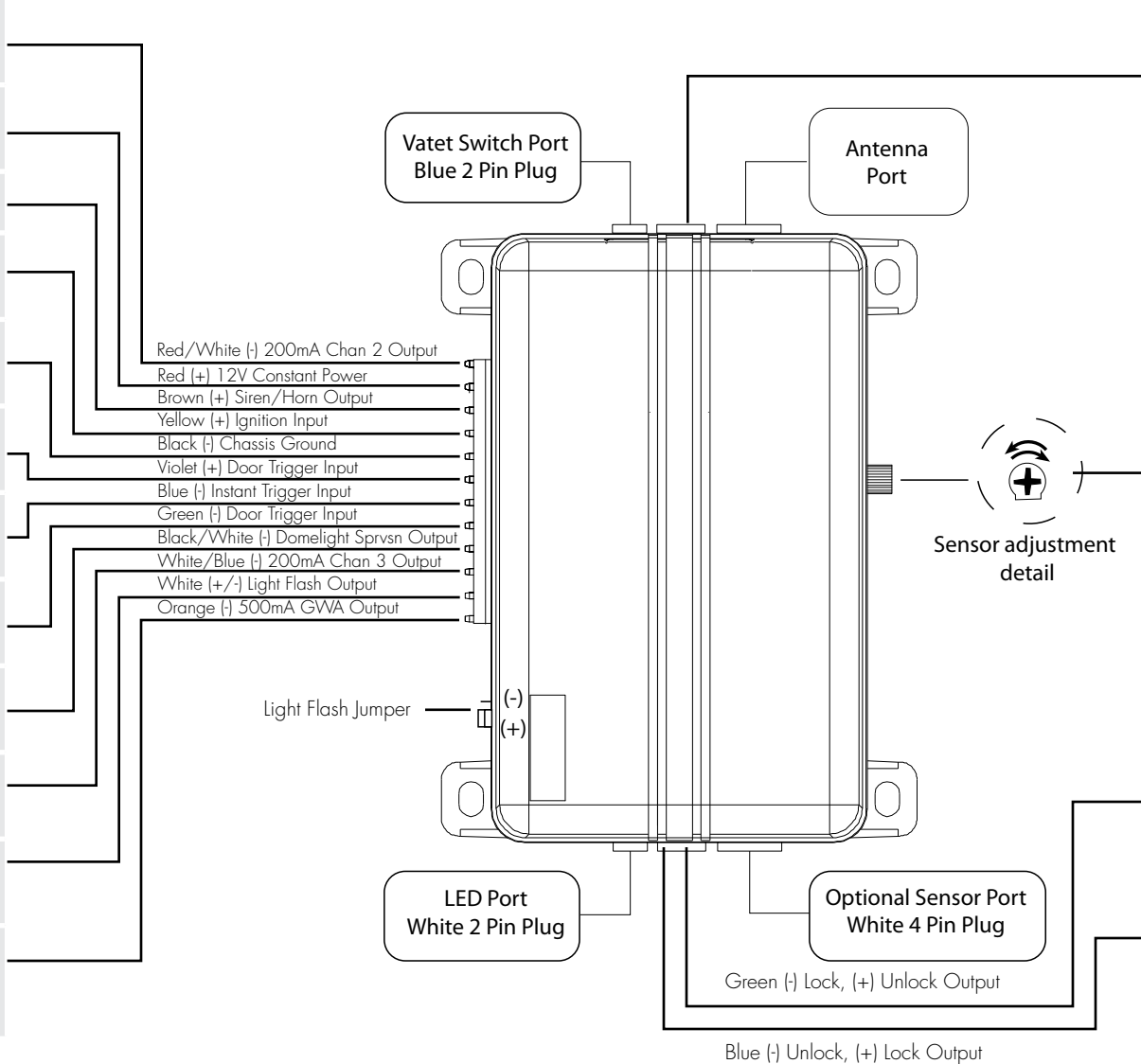
**Door Trigger Input:** Connect to a wire that goes to (-) ground when any door is opened.

**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.



**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 Smartphone.

**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

Important: NEVER connect 200mA low current outputs directly to a motor or high current device WITHOUT a 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
<b>AUX</b>	Channel 2/Silent Mode: Activate Silent Mode and Auxiliary functions
<b>*</b>	Panic
and	Channel 3: Press together to control an Auxiliary output

## Guide Translations

For a French version of the Installation Guide, please download it from [www.directechs.com](http://www.directechs.com) under "Resources".

Traduction du guide:  
Pour une version française du guide d'installation, veuillez le télécharger à [www.directechs.com](http://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](http://www.directechs.com)

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## 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	<b>Ignition Controlled Lock ON</b>	Ignition Controlled Lock OFF
2	Ignition Controlled Unlock	<b>Ignition Controlled Unlock ON</b>	Ignition Controlled Unlock OFF
3	Siren Duration	<b>30 second siren duration</b>	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	<b>Active arming</b>	Passive arming
1-2	<b>Chirps ON</b>	Chirps OFF
1-3	<b>Ignition controlled door locks ON</b>	Ignition controlled door locks OFF
1-4	<b>Active locking only</b>	Passive locking
1-5	<b>Panic w/ignition ON</b>	No Panic w/ignition ON
1-6	<b>0.8 second door lock pulses</b>	3.5 second door lock pulses
1-7	<b>Forced passive arming ON</b>	Forced passive arming OFF
1-8	Automatic Engine Disable ON	<b>Automatic Engine Disable OFF</b>
1-9	<b>Armed When Driving (AWD)</b>	Vehicle Recovery System (VRS)
1-10	<b>Code Hopping™ ON</b>	Code Hopping OFF

### Menu 2: Advanced Features

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

\* In "Horn Honk" setting the brown wire (12-pin) outputs pulses. In "Siren" setting the wire outputs continuously. This wire has a (+) polarity output regardless of setting.

\*\* 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 are 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