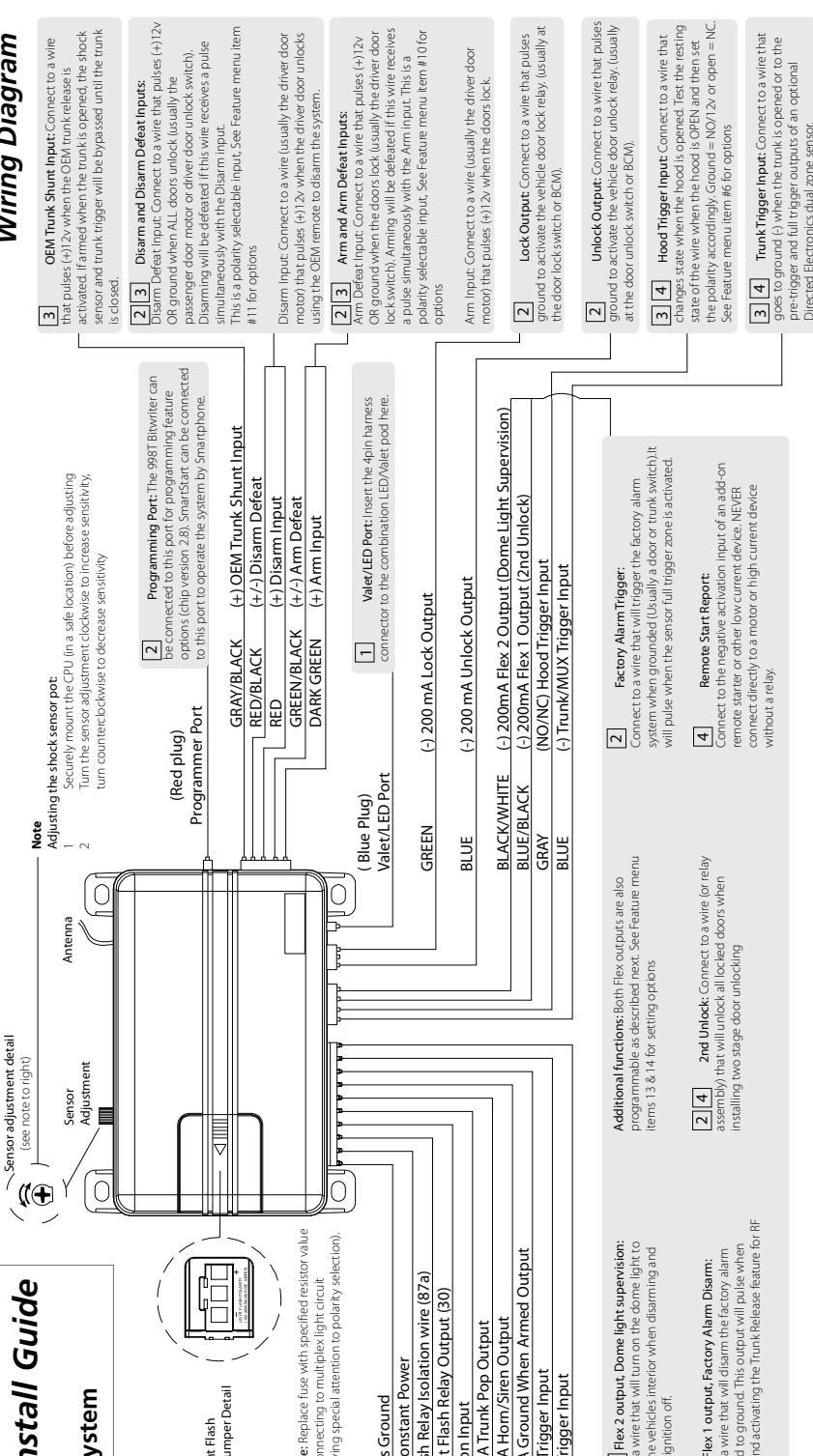


## Wiring Diagram

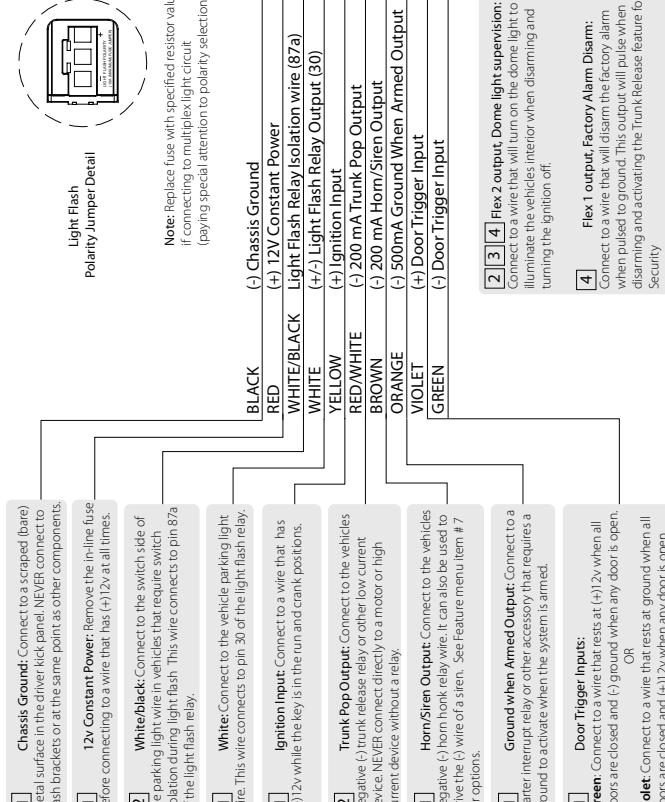


## Quick Reference Install Guide

### Automate AM1.5 OEM Upgrade Security System

**Connection Legend**

1	Required connection
2	Optional connection
3	OEM security upgrade connection
4	RF Security connection



## Feature Programming

### Bitwriter

- This system can be programmed while it's in Dealer mode and Consumer mode using the 998T Bitwriter programmer with P/N 998U-v2.8 chip.

### Dealer Master & Consumer Remote

- Configure a dealer master or consumer remote control to command the system.
- Open a door, turn the ignition on and then off.
- Press/release the Veto button to select an item. See Feature menu option 1 and then press/hold.
- The horn/siren sounds and the LED flashes to confirm the selection.
- Select the option by pressing the Arm/Disarm buttons of a dealer master or Consumer Remote.
- Pulsing + 12V on the Arm input wire selects options when Rf has not been programmed.
- To save the option and select the next menu item to program - return to Step 3 above.
- To exit turn the ignition on, the horn/siren emits 2 seconds to confirm.

### OEM Security Upgrade

- When installed as an OEM Security Upgrade pressing the lock/unlock buttons of the OEM Remote selects options as in Step 5 above.

### Table Notes:

- 1. Items 1-5 [ \* ] indicates default Consumer mode options when changed to a Consumer mode of operation. Any changes must be made after the system is set to Consumer mode.
- 2. Bold type indicates Dealer Security mode default settings.
- 3. These options are specific to the vehicle interface and remain as programmed when the system is changed to Dealer mode or Consumer mode.
- 4. Quick access: To turn on the honk/chip feature without entering programming; simply turn on the ignition and press and hold the Veto button, the unit will respond with a single honk/chip when turning the feature ON. To turn off the honk/chip feature follow the above steps, the unit will respond with a double honk/chip when turning the feature off. .
- 4. See Installation shop manual for a complete description of features and options.

See full Installation Guide for more detailed information on this system.  
Such information and more can be found online at: [www.directechs.com](http://www.directechs.com)

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## Programming and Deleting Remote Controls

has been triggered, the horn/siren sounds 4 times or 5 times if the sensor is bypassed.

- For silent disarming; press the **AUX** button prior to pressing the disarm button.
  - 3. Done light turns on, starter kill becomes inactive, and the status LED turns off.
  - If triggered, the status LED continues to flash to indicate triggered inputs (see table of zones). Turn on the ignition to reset the LED.
  - 4. Press the **¶** button again to unlock the passenger doors if 2nd unlock is connected.
- Trunk Release**
1. Press and hold the **AUX** button.
  2. Factory alarm is disarmed if connected.
  3. Trunk opens.
- Note:** If the system is armed, the trunk input and sensor is bypassed until the trunk is closed. The Blue trunk trigger input must be connected to the vehicle to bypass when armed.
- Panic**
1. Press and hold the **¶** button.
  2. The lights flash and the horn/siren sounds for 30 seconds.
  3. Press the **¶**, **¶**, or **¶** buttons to reset.
- Car Finder**
1. Press and release the **AUX** button, then press and release the **¶** button.
  2. The horn/siren emits one honk and the lights flash 10 times.
  3. Press the **¶** or **¶** buttons to stop the feature.

**Menu Table:**  
Item      Function  
1 sound/flash      Auto learn new remote  
2 sounds/flashes      Delete all remote controls

## System Testing and Sensor Adjusting

Install the system type according to the wiring diagram on page 1 and then perform the following steps to test for correct operation.

### RF Security

#### Arming

1. Press the **¶** button.
2. Doors lock, lights flash and the horn/siren sounds once.

- For silent arming; press the **AUX** button prior to pressing the **¶** button.
- 3. Done light turns off, starter kill becomes active, and the status LED begins flashing.

4. While arming, the system tests the trigger inputs for status. If any trigger inputs are active when arming the horn/siren sounds a second time as a notification, both the onboard impact sensor and the active input are bypassed for a maximum of 4 minutes. While bypassed, the active input is indicated by the status LED flashes (see table of zones for LED flashes).

- Sensor testing:**
- a. Gently impact the vehicle with increasing intensity to test the pretrigger level (10 horn/siren sounds).
  - b. Impact the vehicle more heavily to test the full trigger level (horn/siren/ lights for 30 sec).
  - c. Adjust the sensor pot until the desired levels are obtained

- Note:** The Nuisance Prevention feature bypasses the sensor after 3 full triggers, to reset if active, disarm the system and turn the ignition on/off.
5. Press the **¶** button anytime to reset the sensor

- Disarming**
1. Press the driver door lock switch.
  2. Doors unlock, lights flash and horn/siren sounds 2 times. If the system has been triggered, the horn/siren sounds 4 times or 5 times if the sensor is bypassed.

- If triggered, the status LED continues to flash to indicate triggered inputs (see table of zones). Turn on the ignition to reset the LED.

### Sensor Bypass

- Press and release the **AUX** button within 5 seconds after **¶** button, the lights flash two times and the pretrigger output is bypassed

6. Press and release the **AUX** button again within 5 seconds, the lights flash 3 times and the pretrigger and full trigger outputs are bypassed

7. Press the **¶** button anytime to reset the sensor

### Disarming

1. Press the **¶** button.
2. Doors unlock, lights flash and the horn/siren sounds 2 times. If the system

trigger input to be connected to the vehicle to bypass when armed.

## Government Regulations

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- LED Flashes**
- | LED Flash | Input Trigger    |
|-----------|------------------|
| 1         | Tunk Input       |
| 2         | Shock Sensor     |
| 3         | Door Trigger     |
| 4         | Not Used         |
| 5         | Ignition Trigger |
| 6         | Hood Input       |
- Note:** The Pretrigger does not report on the LED

- Canada statements:**
- This device complies with Industry Canada licence-exempt RSS standards. Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage; et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.**
- Dealer Security**
- The following instructions assume the use of a dealer master remote control.
- Arming**
- Positive
1. Turn the ignition off and close the doors, hood, and trunk.
  2. The LED flashes quickly for 30 seconds.
- Disarming**
- An open door, trunk, or hood stops/ resets the 30-second timer. If still open after 15 minutes the starter kill becomes active.
3. The system arms as described when using a Dealer Master Remote.
- Dealer Master Remote Operation**
- Press the **¶** button.
1. Doors lock, lights flash, starter kill becomes active, and the status LED begins flashing.
  2. If Security features are programmed on, the description under RF Security Arming.
  3. Open after 15 minutes the starter kill becomes active.
- Car Finder**
- Press the **¶** button.
1. Press and release the **AUX** button, then press and release the **¶** button.
  2. The horn/siren emits one honk and the lights flash 10 times.
  3. Press the **¶** or **¶** buttons to stop the feature.
- Passive arming**
- Press the **¶** button.
1. Press and release the **AUX** button, then press and release the **¶** button.
  2. The horn/siren emits one honk and the lights flash 10 times.
  3. Press the **¶** or **¶** buttons to stop the feature.
- Disarming**
- Press the **¶** button.
1. Press the **¶** button, lights flash twice, dome light turns on, starter kill becomes inactive, and the status LED turns off.
  2. The system does not arm if the Arm Defeat input wire is connected to the lock switch.
- Disarming defeat**
- Press the Unlock button on the OEM remote.
1. Press the driver door unlock switch.
  2. Doors unlock, lights flash and horn/siren sounds 2 times. If the system has been triggered, the horn/siren sounds 4 times or 5 times if the sensor is bypassed.
  3. If the system is armed, the trunk shunt input causes the trunk input and sensor to be bypassed until the trunk is closed.
- Trunk release bypass when Armed**
- Press the Trunk release button on the OEM remote.
1. Press the **¶** button.
  2. Trunk opens.
  3. If the system is armed, the trunk shunt input causes the trunk input and sensor to be bypassed until the trunk is closed.
- Note:** Trunk release bypass requires the Gray/black trunk shunt input and Blue trunk



Biulinets with a date code of 6a or older require an IC upgrade [p/n 998V]. Some biulinets with a date code of 6B do not require the IC upgrade, refer to Tech tip #1112 for more information.

The Biulinet® [p/n 998U] requires chip version 3.8 or newer to program this unit.