# Security and Remote Start
# Quick Reference Wiring Guide

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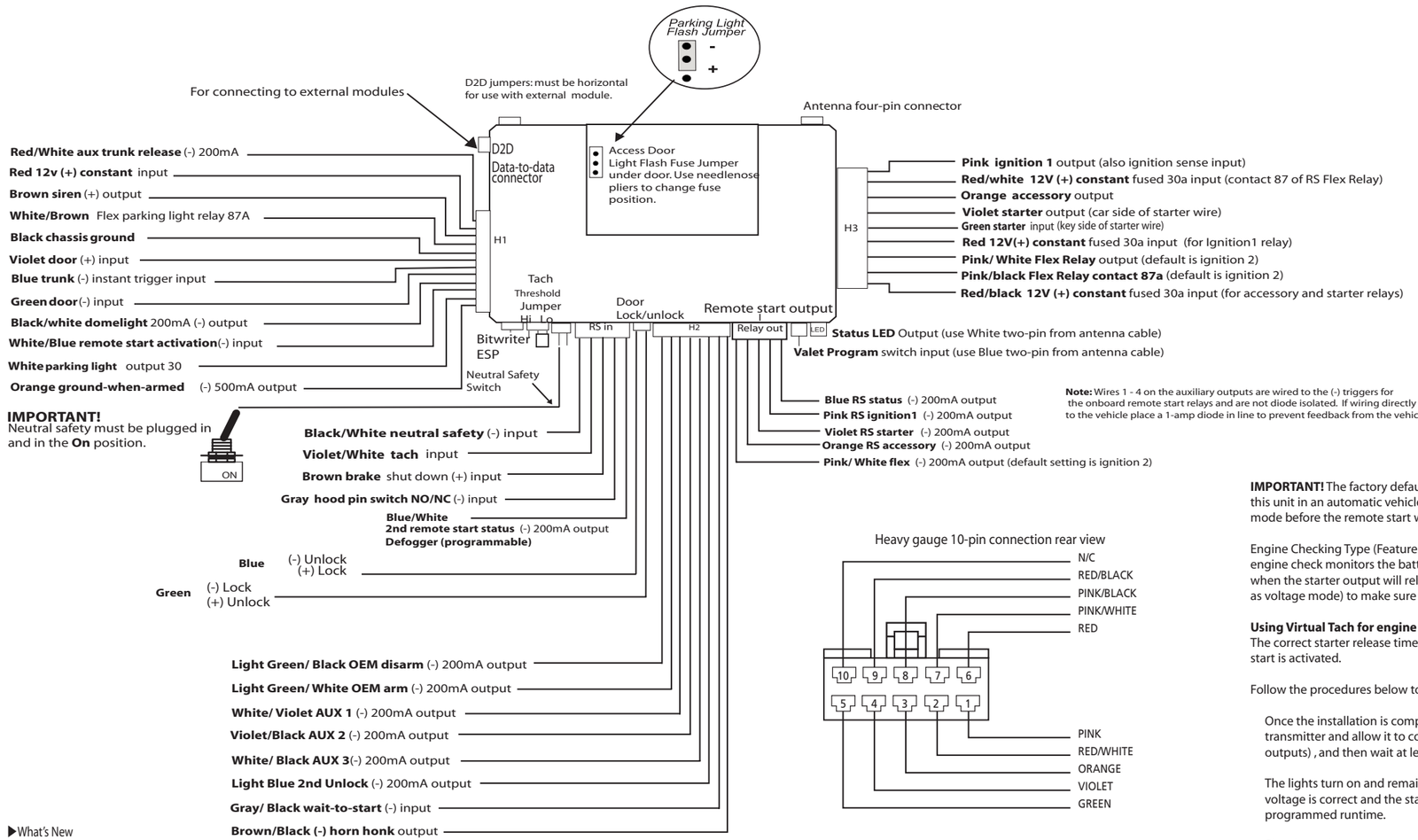


**Note:** Wires 1 - 4 on the auxiliary outputs are wired to the (-) triggers for the onboard remote start relays and are not diode isolated. If wiring directly to the vehicle place a 1-amp diode in line to prevent feedback from the vehicle.

Heavy gauge 10-pin connection rear view




**IMPORTANT!** The factory default is manual transmission mode and if installing this unit in an automatic vehicle, the unit needs to be programmed for automatic mode before the remote start will function.

Engine Checking Type (Feature Menu 3-2) Virtual Tach is the default setting. The engine check monitors the battery voltage during the crank output to determine when the starter output will release and then monitor the battery voltage (same as voltage mode) to make sure the engine is running.

**Using Virtual Tach for engine monitoring:**
The correct starter release time is automatically learned the first time the remote start is activated.

Follow the procedures below to use Virtual Tach to monitor the engine:

Once the installation is complete, activate the remote starter feature using the transmitter and allow it to complete the remote start cycle (up to 3 crank outputs) , and then wait at least 20 seconds.

The lights turn on and remain on while the engine is running to indicate the voltage is correct and the start was successful. The engine runs for the programmed runtime.

Shutdown the remote start using the transmitter. This puts the learned value into memory and the system recalls it the next time remote start is activated.

**Note:** You can reset Virtual tach if the learned value is not correct. Use the same menu that is used for learning the transmitter to the main unit to reset virtual tach.

▶What's New

| | |
|---|---|
| •LED and Valet switch | Now in the receiver |
| •Auto relock | Automatically relocks after each unlock from the remote. If the door , trunk , hood, or ignition is opened or turned on the relock is defeated until the next unlock input. |
| •Hood Trigger Type | For vehicles that have normally closed hood triggers. ( See Feature Menu#1 on the reverse side) |
| •One-time Bypass | User can bypass passive locking, Comfort Closure, and Channel Linking for locking cycle. Turn the ignition on for more than 1 second, and then off in less than 3 seconds, the siren chirps one-time. Features that would normally auto-activate are bypassed. (See Menu #2) |
| •Aux 3 Smart Key Control | Changes the remote start Aux 3 output to a control for use with newer vehicles with Smart Key technology. Provides a pulsed output to turn the engine off, when the remote start shuts down, and to use the door trigger input to shutdown remote start if the door goes active during remote start. When this option is On, the RF control of the Aux 3 output is defeted. One-time bypass does not defeat this output |
| •Flex Relay | Vehicles with varied engine control systems require flexibility in remote start systems. The 2nd ignition relay is now configured as Flex Relay programmable to activate as a 2nd ignition , starter or accessory output. |
| •Tach Mode Starter Release | When using the Tachometer input for engine monitoring, this feature allows you to increase or decrease the crank output release point during remote start to compensate for vehicles with short crank or over crank problems during installation. |

**5702 Responder LC Quick Reference**

## Transmitter Programming

**Consult the "Remote Control Learn Routine" section of the installation guide and enter the remote setup procedure specific to your remote , then proceed to the transmitter/receiver learning procedure..**

### Transmitter/Receiver Learning and Reset procedures

Use the following steps to access the TX/Receiver learning and reset menu:

a. Open door & turn on the ignition

b. Press/release the same number as the desired item, and then press/hold the Valet Switch. The siren will chirp to indicate the selection.

| Transmitter/Receiver Learning and Reset Menu | | |
|---|---|---|
| **Item** | **Function** | **Description** |
| 1 | Learn TXs | Auto learn standard configuration<br>Note: All TX button assignments are automatically set and cannot be customized. |
| 2 | Delete All TXs | Deletes all learned TXs from main unit memory.<br>Note: System features will not be reset to default options when HHUs are deleted. |
| 3 | Feature Reset | Resets all system features to their default options.<br>Note: TXs will not be deleted when features are reset. |
| 4 | VirtualTach Reset | Deletes previously learned values for VirtualTach.<br>Note: After reset the VirtualTach will begin it's learn routine on the next remote start activation. |

### Feature programming

Use the following steps to access the feature programming menus:

a. Open door

b. Turn the ignition ON, then OFF.

c. Press/hold the Valet switch to select the desired Feature Menu. The siren will chirp 1-3 times to indicate the available menu. Release the switch when the desired menu is indicated.
**Note:** You can move between all menus without exiting programming by holding the Valet switch. The unit will cycle through the menus until the switch is released.

d. Press/release the same number as the desired menu item, and then press hold the Valet Switch. The siren will chirp to indicate the selection.
**Note:** The Valet switch can be released while setting the feature options. The exit timer has been extended to 30 seconds.

e. Press the Remote Start, Arm or Disarm button on the TX to set the new options. The siren will chirp to indicate the selected option.
- **Arm button:** Pressing the Arm button will select options in increasing order (IE: 1-2-3-1-2-3)
- **Disarm button:** Pressing the Disarm button will select options in decreasing order (IE: 1-3-2-1-3)
- **Remote Start button:** Pressing the Remote Start button will reset to default option 1.

f. Exit: To exit programming close the doors, turn the ignition on or do nothing for 30 seconds. The siren will generate one short and one long chirp confirming that the system has exited the learn routine.

Features available for programming using the Valet Switch are listed in the following menus. The Bitwriter can also be used to program enhanced feature options not available in the menus.

**Note:** The default settings are indicated in bold type

| Feature menu 1: Security features | | | | | | |
|---|---|---|---|---|---|---|
| **Menu Item** | **Feature** | **Opt. 1** | **Opt. 2** | **Opt. 3** | **Opt.4** | **Opt. 5+** |
| 1 | System Arming Mode | **Active** | Passive Arm w/o lock | Passive Arm w/lock | Auto re-arm w/o lock | Auto re-arm w/lock |
| 2 | Panic Mode | **On** | Ign Off only | Off | | |
| 3 | Confirmation Chirps | **On w/Warn chirps On** | On w/Warn chirps Off | Off w/ Warn chirps On | Off w/ warn chirps Off | |
| 4 | Siren duration | **30 sec.** | 60 sec. | | | |
| 5 | Ign-controlled locks | **No Ign- locking** | Lock & Unlock | Lock Only | Unlock Only | |
| 6 | DoorLock Pulses | **Single** | Double Unlock Only | Double Lock Only | Double Lock & Unlock | |
| 7 | Door lock output duration | **0.8 sec.** | 3.5 sec. | 0.4 sec. | | |
| 8 | 2nd Unlock | **No 2nd Unlock** | 2nd unlock on Ign-control after first unlock | 2nd unlock on Ign-control with first unlock | | |
| 9 | Comfort Closure | **No Comfort Closure** | Comfort Closure 1 | Comfort Closure 2 | | |
| 10 | Horn function | **Full Alarm Only** | Siren Function 20 mS | Siren Function 30 mS | Siren Function 40 mS | Siren function 50 mS |
| 11 | Hood Trigger Type | **Normally Open** | Normally closed | | | |
| 12 | Sensor trigger | **Single** | Double | | | |

| Feature menu 2: Convenience features | | | | | | |
|---|---|---|---|---|---|---|
| **Menu Item** | **Feature** | **Opt. 1** | **Opt. 2** | **Opt. 3** | **Opt.4** | **Opt. 5+** |
| 1 | One-time Bypass | **One time bypass OFF** | One time bypass ON | | | |
| 2 | Nuisance Prevention | **ON** | Off | | | |
| 3 | Valet Switch Pulse Count | **1** | 2 | 3 | 4 | 5 |
| 4 | Door Trigger Error Chirp | **On** | Off | | | |
| 5 | Ign-controlled Dome light | **On** | Off | | | |
| 6 | OEM Alarm Disarm w/ trunk release | **On** | Off | | | |
| 7 | OEM Alarm Disarm Output | **With Unlock** | Before Unlock | Remote Start Only | | |
| 8 | OEM Alarm Disarm Pulses | **1** | 2 | | | |
| 9 | Aux 1 Output type | **Validity** | Latch | Latch/reset/ign | Timed 30 sec. | Off |
| 10 | Aux 1 Linking | **No Linking** | Link to Arm | Link to Disarm | Link to Arm/ disarm | Link to Remote Start only |
| 11 | Aux 2 Output type | **Validity** | Latch | Latch reset/ign | Timed 30 sec. | Off |
| 12 | Aux 2 Linking | **No Linking** | Link to Arm | Link to Disarm | Link to Arm/ Disarm | Link to Remote Start only |
| 13 | Aux 3 Output type | **Validity** | Latch | Latch reset/ign | Timed 30 sec. | Off |
| 14 | Aux 3 Linking | **No Linking** | Link to Arm | Link to Disarm | Link to Arm/ Disarm | Smart Key Control (Link to Remote Start Off) |

| Feature menu 3: Remote Start features | | | | | | |
|---|---|---|---|---|---|---|
| **Menu Item** | **Feature** | **Opt. 1** | **Opt. 2** | **Opt. 3** | **Opt.4** | **Opt. 5+** |
| 1 | Transmission Mode | **Manual** | Automatic | | | |
| 2 | Engine Checking Mode | **Virtual Tach** | Voltage | Off | Tachometer | |
| 3 | Cranking Time | **0.6 sec.** | 0.8 sec. | 1.0 sec. | 1.2 sec. | 1.4 (5)/1.6(6)/ 1.8 (7) 2.0(8)4.0(9) |
| 4 | Remote Start Runtime | **12 min.** | 24 min. | 60 min. | | |
| 5 | Activation Pulse Count | **1** | 2 | | | |
| 6 | Turbo Mode | **No Turbo Mode** | On-1 min. | On-3 min. | On-5 min. | On-10 min. |
| 7 | Timer Mode Runtime | **12 min.** | 3 min. | 6 min. | 9 min. | |
| 8 | Flex Relay Function | **Ignition 2** | Accessory 2 | Starter 2 | | |
| 9 | Diesel Start Delay | **Wait-to Start input** | Timed 15 sec. | Timed 30 sec. | Timed 45 sec. | |
| 10 | Accessory during Diesel Start Delay | **On** | Off | | | |
| 11 | Status 2 Output | **Status** | Latch Rear Defogger | Pulse Rear Defogger | | |
| 12 | Parking Light Output | **Constant** | Pulsed | Off | | |
| 13 | Anti-grind Output | **On** | Off | | | |
| 14 | Tach Mode Starter Release | **Normal** | Increase | Decrease | | |
| 15 | Vehicle temp auto report | **Off** | On | | | |

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