

Diagnostics – Parking Light Flash Table

Flashes	Description	
1	<ul style="list-style-type: none"> <li>Doors locked, Alarm and starter kill armed.</li> <li>Run time has expired.</li> <li>TRUNK button pressed.</li> <li>Start signal received by the module.</li> <li>Cold weather mode cancelled.</li> </ul>	
2	<ul style="list-style-type: none"> <li>Remote start attempt cancelled by remote.</li> <li>Doors unlocked, starter kill disarmed.</li> <li>Exiting ignition valet</li> <li>Exiting remote valet</li> <li>Power-up reset.</li> </ul>	
3	<ul style="list-style-type: none"> <li>Entering cold weather mode</li> <li>Entering ignition valet</li> <li>Entering remote valet.</li> <li>Entering extended run time.</li> </ul>	
3 slow flashes...	...after a failed start attempt	The module did not detect a tach signal.
4	<ul style="list-style-type: none"> <li>+12 V detected on the brake input wire either while cranking or during run time.</li> <li>Entering multi-speed tach programming.</li> </ul>	
5 Slow	Start attempt failed because no tach signal has been programmed.	
5 Fast	<ul style="list-style-type: none"> <li>Tach signal programmed.</li> <li>New transmitter programmed.</li> </ul>	
6	A remote start was attempted while a tach-before-crank signal was detected before cranking.	
8	Unit reset see "Resetting the Module" (p.2)	
10	A ground (-) signal was detected on the hood pin input wire.	
1 – pause – 2	<ul style="list-style-type: none"> <li>There was a remote start attempt while the vehicle was in valet mode.</li> <li>Failed start: vehicle's low battery voltage.</li> </ul>	
2 – pause – 2	There was an attempt to start the vehicle while the module was in valet mode.	
ON SOLID for 3 seconds....	...followed by 1 flash	Exiting cold weather mode
	...followed by 3 flashes	Entering cold weather mode
ON continuously	<ul style="list-style-type: none"> <li><b>Idle mode:</b> Idle mode is engaged</li> <li><b>Run time:</b> The vehicle has been remote started and is in run time.</li> </ul>	
ON continuously	While the brake pedal is pressed.	● Confirms that cold weather mode is engaged
ON 2 seconds	The hood has been opened and a ground (-) signal has been detected on the hood pin input wire.	
ON 4 seconds	Locking or unlocking a door (with Door pulses configured to 4 sec.)	
ON 20 seconds	The hood pin has been flashed and you now have access to the programming options.	
ON 25 SEC.	The Hood Pin-switch has been pressed twice: the Unit went into step 1 of the Programming Centre procedure, and no Transmitter activity was detected for 20 seconds. Or the Unit went into step 1 of the Transmitter Programming procedure and no activity was detected for a few seconds. The Unit has exited the Transmitter Programming procedure.	
IRREGULAR	If the unit gives irregular signals (1 to 10 flashes followed by a pause, followed by further flashes), the system is playing back Start Failure Codes. This occurs when the Hood Pin-switch is pressed three times.	
CONSTANT FLASHES UP TO 60 SEC.	In Siren or Horn Mode: Alarm condition generated by an intrusion, by Panic Mode or when the System is powered up.	

# Quick Installation Guide



**To obtain a copy of the installation guide, please visit the <http://www.autostart.ca> website and click on the « Download » tab.**

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### How to Flash the Hood Pin

THE INSTALLER ...	THE MODULE ...
<ul style="list-style-type: none"> <li>Press and hold the hood pin for 4 seconds.</li> <li>Release the hood pin.</li> <li>While the parking lights are on, press down the hood pin once more and release the hood pin immediately.</li> <li>You now have 20 seconds to select one of the sub-menus</li> </ul>	Parking Lights "ON"  "ON" for 20 seconds

#### Notice

The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of the product, be that either damage to the vehicle itself or to the unit. This unit must be installed by a certified technician using all safety devices supplied. Please note that this guide has been written for properly trained Autostart technicians: a certain level of skills and knowledge is therefore assumed. Please review the installation guide carefully before beginning any work.

#### Warning

This remote starter is designed for vehicles with an **automatic** transmission only. Before installing the unit, test that the vehicle does not start when the gear select lever is in the "Drive" position. If it starts in gear, install a manual-transmission remote starter system instead.



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## Multi-speed Tach Programming

1. **Flash the hood pin (see p.1)**—the parking lights will stay on for up to 20 seconds.
  2. Before the lights go out, press and hold the brake pedal and press the **LOCK** and **UNLOCK** buttons simultaneously—the parking lights will flash 4 times, then the siren or horn will chirp 4 times. At that point, release the brake pedal.
  3. Start up the engine and allow the vehicle to reach regular engine idle speed.
  4. Once the engine is running idle, press the brake pedal and keep it down until you hear the parking lights output click 5 times and the siren will chirp twice.
  5. Release the brake pedal—the tach programming is now complete.
- The siren will chirp 1,2,3 times to indicate which tach mode has been detected.

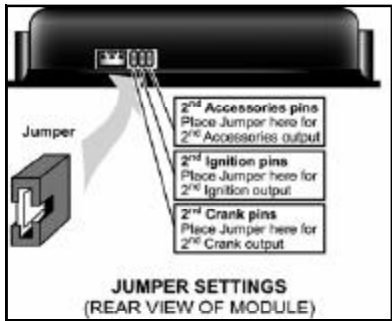
## Siren or Horn Timing

Follow these steps to program horn confirmation:

1. Ensure that the hood is up and that the ignition is off.
  - Hold the hood pin down for 4 seconds.
  - Release the hood pin. The parking lights will come on.
  - While the parking lights are on, immediately push and release the hood pin again.—The parking lights will stay on for up to 20 seconds.
2. Press and hold the brake pedal, then simultaneously press the **UNLOCK** and **START** buttons—the horn will chirp 5 times.
3. Release the brake pedal.
4. To change the timing:
  1. To increase the Horn pulse by 3 ms, press the **LOCK** button.
  2. To decrease the pulse by 3 ms, press the **UNLOCK** button.
  3. To increase the pulse by 10 ms, press the **START** button.
  4. To decrease the pulse by 10 ms, press the **TRUNK** button.
5. To save the new settings: press **LOCK** and **UNLOCK**. If 3 chirps are returned the new settings have been saved.

## Supplementary Information

### Fifth Relay Output (2nd IGN, ACC or CRANK)



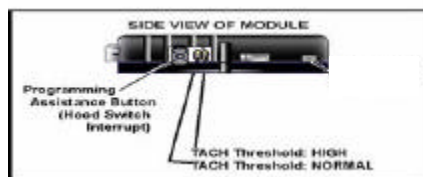
Remote car starters of this series are equipped with an on-board high-current programmable 5<sup>th</sup> relay that can be used to power a second ignition, accessory or crank wire. The unit uses 3 sets of pins; each set corresponds to a specific function of the output. In order to activate one of the three possible functions, you must place the jumper (supplied) on one of the three sets of pins and connect the 14 AWG wire to the second **IGN. / ACC. / CRANK** wire of the vehicle.

### Caution!

Only one set of pins can be used at one time. Using more than one jumper may result in serious damage to the vehicle. The relay output rating on this unit is 25 a at most. Defective oem solenoid switches can sometimes draw up to 50 or 60 a, causing the 30 a fuse to blow. Always verify your circuit with an appropriate measuring device.

## Tach jumper settings

Some new vehicles have a higher TACH voltage threshold, which would fall out of the normal TACH trigger circuit of the remote car starter. Changing the jumper to TACH Threshold HIGH will allow the module to properly detect the TACH signal.



## MODE 2 \* INDICATES DEFAULT SETTING

### FUNCTION 1 – Home Valet™

- OPTION 1 Home Valet™ enabled
- OPTION 2\* Home Valet™ disabled

### FUNCTION 2 – Safe start.

- OPTION 1 Safe start enabled
- OPTION 2\* Safe start disabled
- OPTION 3 "Swap Start" – enhanced safe start mode with extended safety: To start the engine: press **LOCK** and **UNLOCK** buttons simultaneously. To trigger **AUX 2**: press **START**

### FUNCTION 3 – Engine Run Time

- OPTION 1 Run time = 3 minutes in gas mode / 8 minutes diesel mode
- OPTION 2\* Run time = 15 minutes in gas mode / 20 minutes diesel mode
- OPTION 3 Run time = 25 minutes in gas mode / 30 minutes diesel mode

### FUNCTION 4 – Idle/Turbo Mode

- OPTION 1 Idle/turbo mode disabled
- OPTION 2\* Idle/turbo mode enabled

### FUNCTION 5 – Engine Type and Cold Weather Mode

- OPTION 1 Diesel mode with 20-minute run time in cold weather mode with 30sec delay
- OPTION 2\* Gas mode with 3-minute run time in cold weather mode
- OPTION 3 Diesel mode with 8-minute run time in cold weather mode with 18sec delay
- OPTION 4 Diesel mode with 8-minute run time in cold weather mode with 7sec delay

## MODE 3 \* INDICATES DEFAULT SETTING

### FUNCTION 1– Siren Chirps

- OPTION 1 Warning chirps only; Lock Confirmation if the Lock button is pressed a 2<sup>nd</sup> time.
- OPTION 2\* Chirp enabled.
- OPTION 3 Chirp enabled with Open-Zone notification (Siren warning 10 sec. after arming if a door is left open) (Also used for vehicles with Dome Light Delay)
- OPTION 4 Chirps disabled with Lock Confirmation if the LOCK button is pressed a 2<sup>nd</sup> time

### FUNCTION 2– Passive or active arming

- OPTION 1 ACTIVE arming.
- OPTION 2\* Passive arming (30 sec.)
- OPTION 3 Passive arming (30 sec.) / no TWO-STAGE DISARM
- OPTION 4 Active arming with disarmed notification.

### FUNCTION 3 – Ignition Monitoring: Siren Mode / Horn Mode

- OPTION 1 Siren Mode: Ignition Monitoring — disabled
- OPTION 2\* Siren Mode: Ignition Monitoring — enabled
- OPTION 3 Horn Mode: Ignition Monitoring — disabled
- OPTION 4 Horn Mode: Ignition Monitoring —enabled

### FUNCTION 4 – Shock Sense / Warn-away

- OPTION 1 Shock Sense — ignored / Warn-away — ignored
- OPTION 2\* Shock Sense monitored / Warn-away monitored
- OPTION 3 Shock Sense monitored / Warn-away ignored
- OPTION 4 Shock Sense ignored / Warn-away monitored

### FUNCTION 5 – Ignition Valet

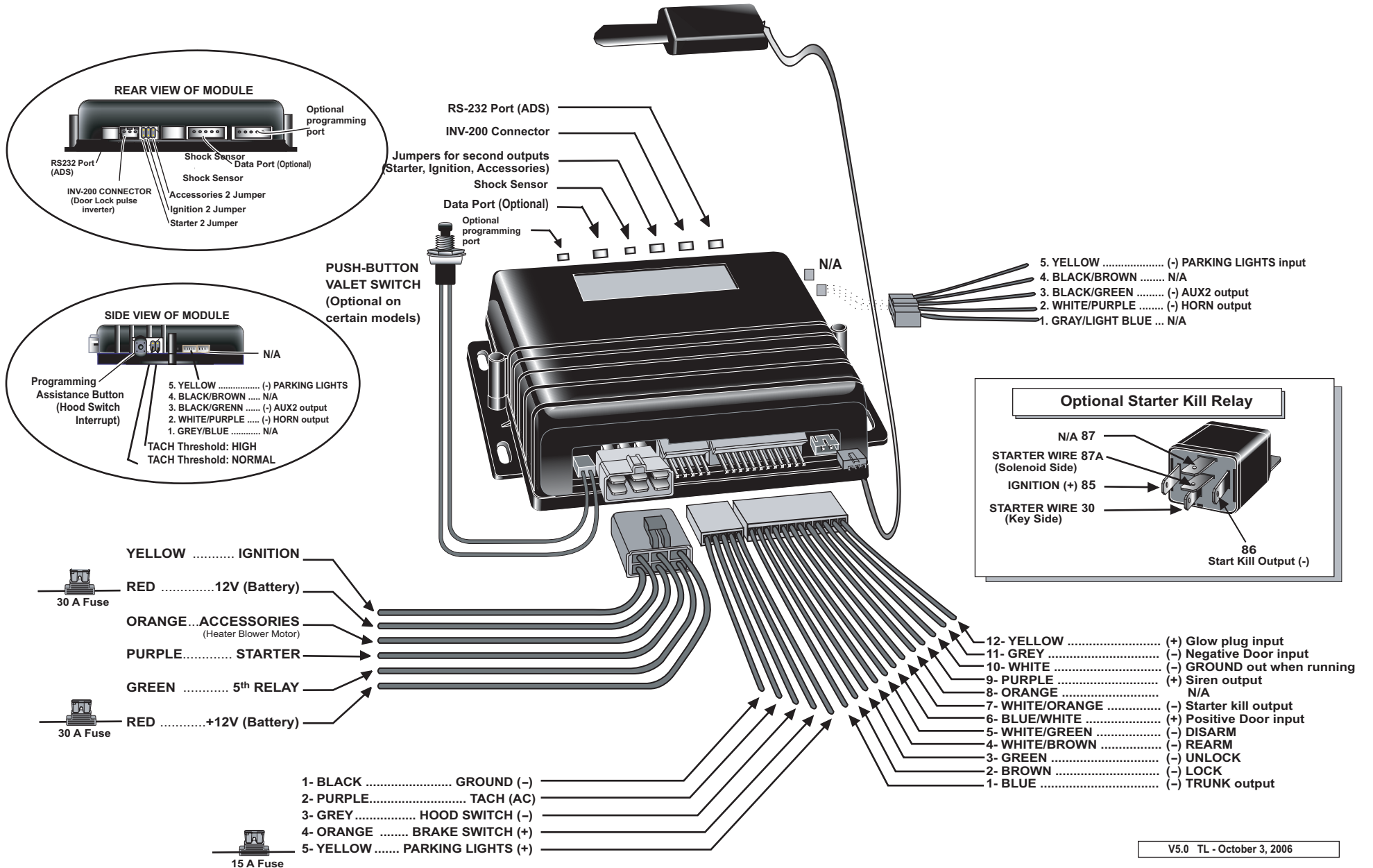
- OPTION 1 Ignition Valet — DISABLED
- OPTION 2\* Ignition Valet — ENABLED

## MODE 4 \* INDICATES DEFAULT SETTING

### FUNCTION 1 – Pager Option (Pager sold separately)

- OPTION 1 Enabled
- OPTION 2\* Disabled

# WIRING SCHEMATIC



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