Diagnostics – Parking Light Flash Table

| Diagnostics - F                      | arking Light Flash Table  |  |  |
|--------------------------------------|---|--|--|
| Flashes                              | Descri  | iption   |  |
| 1                                    | Doors locked, Alarm and starter kill armed.     Run time has expired.     TRUNK button pressed.     Start signal received by the module.     Cold weather mode cancelled.   |  |  |
| 2                                    | Remote start attempt cancelled by remote. Doors unlocked, starter kill disarmed. Exiting ignition valet Exiting remote valet Power-up reset.  |  |  |
| 3                                    | Entering cold weather mode     Entering ignition valet     Entering remote valet.     Entering extended run time.   |  |  |
| 3 slow flashes                       |   | nodule did not detect a tach signal.             |  |
| 4                                    | <ul> <li>+12 V detected on the brake input wire eithe</li> <li>Entering multi-speed tach programming.</li> </ul>  |  |  |
| 5 Slow                               | <ul> <li>Start attempt failed because no tach signal h</li> </ul>   | as been programmed.                              |  |
| 5 Fast                               | <ul><li> Tach signal programmed.</li><li> New transmitter programmed.</li></ul>   |  |  |
| 6                                    | <ul> <li>A remote start was attempted while a tach-be</li> </ul>  | efore-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                        | There was a remote start attempt while the vehicle was in valet mode.     Failed start: vehicle's low battery voltage.  |  |  |
| 2 – pause – 2                        | <ul> <li>There was an attempt to start the vehicle wh</li> </ul>  | ile the module was in valet mode.                |  |
| ON SOLID for 3 seconds               | · ·   | g cold weather mode                              |  |
|                                      | ,   | ing cold weather mode                            |  |
| ON continuously                      | Idle mode: Idle mode is engaged     Run time: The vehicle has been remote star  | ted and is in run time.                          |  |
| ON continuously                      | ·   | onfirms that cold weather mode is engaged        |  |
| ON 2 seconds                         | wire.   | signal has been detected on the hood pin input   |  |
| ON 4 seconds                         | <ul> <li>Locking or unlocking a door (with Door pulse</li> </ul>  | ,  |  |
| ON 20 seconds                        | <ul> <li>The hood pin has been flashed and you now</li> </ul>   | 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 the system is playing back Start Failure Codes. Three times.   |  |  |
| CONSTANT<br>FLASHES<br>UP TO 60 SEC. | In Siren or Horn Mode: Alarm condition generate<br>System is powered up.  | d by an intrusion, by Panic Mode or when the     |  |







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

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## ONE-WAY AUTOMATIC TRANSMISSION REMOTE STARTER WITH FULL ALARM SYSTEM

## Quick Installation Guide







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

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### How to Flash the Hood Pin

| THE INSTALLER   | THE MODULE          |
|---|---------------------|
| Press and hold the hood pin for 4 seconds.     Release the hood pin.  While the modern links are an arranged and the hood pin.                                      | Parking Lights "ON" |
| While the parking lights are on, press down the hood pin once more and release the hood pin immediately.     You now have 20 seconds to select one of the sub-menus | "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.

Worming

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.

DOC.1.01 R:6210 - October 20, 2006 TL Lp Manufactured in Canada

## Resetting the Module

| WARNING! | By resetting the module, all programmed values are erased — i.e.: tach, transmitter as |
|----------|--|
|          | well as programming options. The programming options are returned to their default     |
|          | values.  |

- 1. Flash the hood pin (see p.1).
- 2. Once having reached the programming mode, the system will grant 10 seconds to complete the next step:
- a) Press and release the break pedal <u>6 times</u> (within 10 seconds from entering programming mode). The parking lights will flash 8 times to confirm the module is reset.

## **Transmitter Programming Procedure**

- Flash the hood pin (see p.1) the parking lights will stay on for up to 20 seconds.
   Before the lights go out, turn the ignition key to the IGNITION ON (RUN) position and immediately to the OFF position.
- 3. Press and hold the LOCK button and keep it down until the siren or horn chirps twice and the parking lights flash 5 times
- 4. The transmitter has been stored in memory.
- 5. To exit: close the hood.

To program a transmitter on the second vehicle for multi-car operation, you must press the TRUNK button (instead of LOCK or UNLOCK) in step 3 of the transmitter programming procedure:

## Entering Programming Ontions

| L  |  |  |
|----|--|--|
| 1. | Flash the hood pin switch (see p.1) — the parking lights w         | ill stay on for up to 20 seconds.                              |
| 2. | Before the lights go out, press and hold the brake pedal and       | then press one of the following buttons:                       |
|    | LOCKto access mode 1;  | TRUNKto access mode 3; or                                      |
|    | UNLOCKto access mode 2;  | STARTto access mode 4.   |
| 3. | The parking lights will flash and the siren will chirp (if progran | nmed) once, twice, three or four times to confirm entry into a |
|    | mode.  |  |
|    | B  |  |

4. Release the brake pedal.

After selecting the function, press one of the corresponding buttons to select the option.

| LOCK   | for | Option 1, | TRUNK | for | Option 3; |
|--------|-----|-----------|-------|-----|-----------|
| UNLOCK | for | Option 2, | START | for | Option 4; |

## **Programming Options**

| MODE 1 | * INDIC            | CATES DEFAULT SETTING  |
|--------|--------------------|--|
| FUNC   | TION 1 – Ignition- | controlled door locks  |
|        | OPTION 1*          | Ignition lock disabled   |
|        | OPTION 2           | Ignition lock enabled  |
|        | OPTION 3           | Ignition unlock ONLY   |
|        | OPTION 4           | Ignition lock ONLY   |
| FUNC   | TION 2 – Secure le | ock  |
|        | OPTION 1*          | Secure lock disabled (1-sec. disarm pulse)   |
|        | OPTION 2           | Secure lock enabled in standard mode   |
|        | OPTION 3           | Smart secure lock enabled in smart mode  |
| FUNC   | TION 3 – Door loc  |  |
|        | OPTION 1*          | 7/10-sec. lock/unlock pulses   |
|        | OPTION 2           | 4-sec. lock/unlock pulses  |
|        | OPTION 3           | 7/10-sec. lock pulse and two ¼ -sec. unlock pulses   |
|        | OPTION 4           | 1/10-sec. lock/unlock pulses   |
| FUNC   | TION 4 - AUX 3 P   |  |
|        | OPTION 1*          | Constant while the TRUNK button is pressed, disarm and passive rearm after 30 sec                  |
|        | OPTION 2           | 1-sec. Trunk (-) output when <b>TRUNK</b> button is pressed for 3 sec. while ignition off and data |
|        |                    | output. Disarm and passive rearm after 30 sec.   |
| FUNC   | TION 5 - AUX 2 P   | rogramming   |
|        | OPTION 1*          | Toggle unlock priority door and all doors with UNLOCK button and Car finder                        |
|        | OPTION 2           | AUX Toggle with 30-sec. timeout — Press LOCK and UNLOCK buttons simultaneously                     |
|        | OPTION 3           | AUX constant while pressed — Press LOCK and UNLOCK buttons simultaneously                          |

## **Testing**

Before putting back the vehicle together, it is recommended to check that the system operates properly. The following testing procedures should be used to verify proper installation and operation of the system. Before testing, make sure that all connections are soldered and that the unit is plugged in.

| Remote-start the engine and listen for starter drag. If the starter cranks for too long, carry out another tach programming procedure.  |
|---|
| <b>Hood switch shutdown.</b> With the vehicle running under the remote car starter, open the hood; the vehicle should shut down. If it does not shut down, check the hood pinswitch and its connector.  |
| <b>Brake shutdown circuit.</b> With the vehicle running under the remote car starter, press and release the brake pedal. The engine should shut down immediately. If the engine continues to run, check the brake switch connection.  |
| $\mbox{\bf OEM}$ alarm control. Make sure the module is able to arm and disarm the oem alarm (if applicable).   |
| <b>Door locks and trunk testing.</b> Make sure each of these options respond to the transmitter (if installed).   |
| <b>Starter kill option.</b> Sit inside the vehicle with all doors closed. Arm the vehicle, then try to start the engine with the key. The engine should not start. If the engine starts, rewire the starter kill to reach proper operation.   |
| Valet mode. Make sure the remote car starter is able to properly enter and exit valet mode. When setting the remote car starter into valet mode, pressing the lock button will lock the doors without activating the starter kill. (refer to the user guide for further information on valet mode.) |
| Idle mode. Make sure the vehicle properly enters and exits idle mode.   |
| <b>Door and Trunk trigger.</b> Make sure that when the system is armed, opening any door or opening the trunk will trigger the alarm (if installed).  |
| $\mbox{\bf Hood trigger}.$ Make sure that when the system is armed, opening the hood should trigger the alarm.  |
| <b>Shock and warn-away trigger.</b> Make sure that the shock works well and is not too sensitive so that it unnecessarily triggers the alarm.   |
| Most comebacks are the result of misunderstandings about how a product works or performs. Take the time to properly explain all functions and features to the customers before they leave the premises. Doing this will save time and money.  |

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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.
- 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.

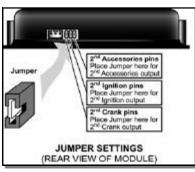
The siren will chirp 1,23,3 times to indicate which tach mode has been detected.

## 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)



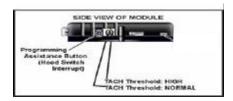
Remote car starters of this series are equipped with an on-board high-current programmable 5th relay that can be used to power a second ignition, accessory or crank wire. The unit uses 3 sets of pins; each set corresponds to a specific function of the output. In order to activate one of the three possible 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.



|          | 1 ONOTION 1 - Home valet |  |  |
|----------|--------------------------|--|--|
|          |                          | Home Valet™ enabled  |  |
| OF       | PTION 2*                 | Home Valet™ disabled   |  |
| FUNCTION | 2 - Safe start           |  |  |
| OF       | PTION 1                  | Safe start enabled   |  |
| OF       | PTION 2*                 | Safe start disabled  |  |
| OF       | PTION 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 R             | un Time  |  |
| OF       | PTION 1                  | Run time = 3 minutes in gas mode / 8 minutes diesel mode   |  |
| OF       | PTION 2*                 | Run time = 15 minutes in gas mode / 20 minutes diesel mode   |  |
| OF       | PTION 3                  | Run time = 25 minutes in gas mode / 30 minutes diesel mode   |  |
| FUNCTION | 4 - Idle/Turbo           | o Mode   |  |
| OF       | PTION 1                  | Idle/turbo mode disabled   |  |
| OF       | PTION 2*                 | Idle/turbo mode enabled  |  |
| FUNCTION | 5 - Engine Ty            | /pe and Cold Weather Mode  |  |
| OF       | PTION 1                  | Diesel mode with 20-minute run time in cold weather mode with 30sec delay  |  |
| OF       | PTION 2*                 | Gas mode with 3-minute run time in cold weather mode   |  |
| OF       | PTION 3                  | Diesel mode with 8-minute run time in cold weather mode with 18sec delay   |  |
| OF       | PTION 4                  | Diesel mode with 8-minute run time in cold weather mode with 7sec delay  |  |
| MODE 3   | * INDICA                 | ITES DEFAULT SETTING   |  |

\* INDICATES DEFAULT SETTING

MODE 2

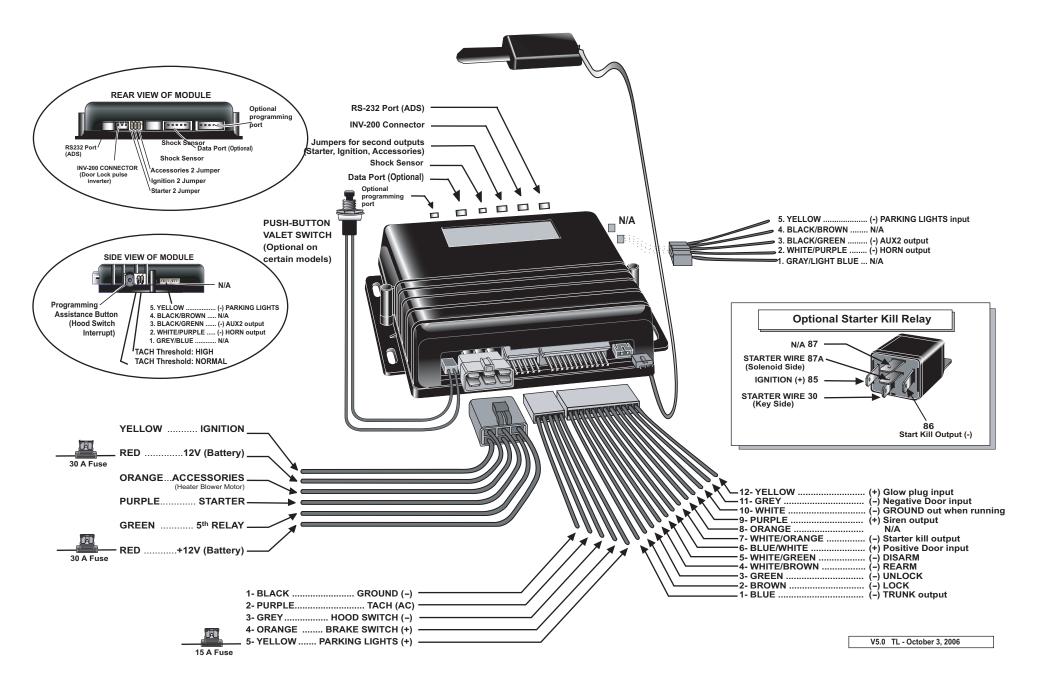
FUNCTION 1 - Home Valet ™

| MODE 3 | * INDIC          | ATES DEFAULT SETTING   |
|--------|------------------|--|
| FUNCT  | ION 1- Siren Chi | rps  |
|        | 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  |
| FUNCT  | ION 2- Passive o | r 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.  |
| FUNCT  | ION 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  |
| FUNCT  |                  | ense / 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  |
| FUNCT  | ION 5 – Ignition |  |
|        | OPTION 1         | Ignition Valet — DISABLED  |
|        | OPTION 2*        | Ignition Valet — ENABLED   |

| MODE 4   | * INDICA          | TES DEFAULT SETTING        |
|----------|-------------------|----------------------------|
| FUNCTION | ON 1 - Pager Opti | on (Pager sold separately) |
|          | OPTION 1          | Enabled                    |
|          | OPTION 2*         | Disabled                   |

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# WIRING SCHEMATIC



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