

# User Guide

## WARNING



*It is the responsibility of the vehicle operator to ensure their vehicle is parked in a safe and responsible manner.*

1. When leaving the vehicle, it is the user's responsibility to ensure that the gearshift lever is in the **NEUTRAL** position and the parking brake is engaged in order to avoid accidents upon remote starting.
2. It is the user's responsibility to ensure that the remote starter is disabled or put into valet mode before servicing.

### **FCC USER NOTICE (U.S.A.):**

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.

**NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

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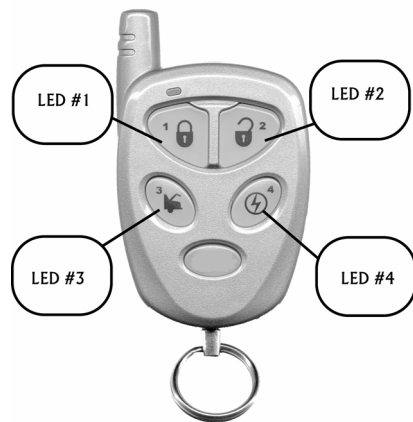
## Introduction

This is a state-of-the-art remote car starter system. The system is packed with advanced features such as priority access to the driver's door (commodity features) and the Safe Start children safety feature. With many an advanced function, this product will satisfy any one your expectations from high-end commodity and security systems, without neglecting any standard feature commonly offered by entry-level starters.

## Using the Remote Control

Your remote starter is equipped with a 5-button multi-channel remote control. It can operate two independent vehicles equipped with a remote starter (see **Multi-car operation** section on page 10). The functions of the transmitter are as follows:

	<b>LOCK:</b> Locks the Doors and arms the STARTER KILL.
	<b>UNLOCK:</b> Unlocks the Doors and disarms the STARTER KILL. Activates the AUX 2 output if Priority Door Access is configured.
	<b>TRUNK:</b> Opens the TRUNK or activates the AUX 3 output.
	<b>START/STOP:</b> Remote start/stop. <b>Cold Weather Mode</b> by pressing the <b>SHIFT</b> button and then pressing and holding the <b>START/STOP</b> button for 3 seconds.
<b>AUX.</b> 	<b>SHIFT:</b> This button serves as a second function button. In combination with the other four buttons, this button allows to assign different functions to those buttons.



### For certain vehicles:

- Pressing and holding the **LOCK** button for more than 3 seconds will lock all doors and will send a constant pulse as long as the **LOCK** button is held down (maximum of 15 seconds). This constant pulse can be configured to activate certain functionalities such as rolling up the windows – **Please refer to your installer to see if your vehicle is compatible with this option.**
- Pressing and holding the **UNLOCK** button for more than 3 seconds will unlock all doors and will send a constant pulse as long as the **UNLOCK** button is held down (maximum of 15 seconds). This constant pulse can be configured to activate certain functionalities such as rolling down the windows – **Please refer to your installer to see if your vehicle is compatible with this option.**

## Vehicle Presets

### Heater & Heated Seat

When leaving the vehicle it is recommended to preset the accessory controls in preparation for the next remote start. Settings for the blower motor (fan), front and rear, as well as heated seats (if equipped) should not be left on **HIGH**. It is recommended to leave the settings on **LOW** or **MEDIUM** instead.

### Windshield Wipers & Radio & Headlights

Certain vehicles require the radio and / or windshield wiper and / or headlight circuits to become energized while running under remote start. When leaving the vehicle you must ensure that the windshield wiper and headlight switches are **OFF**. Leaving the headlight switch **ON** on certain types

of vehicles could cause them to remain **ON** even after remote starter shut down, resulting in a dead battery.

## Arming the Starter Kill

The Starter Kill (if installed) can be configured by the installer so as to arm automatically (Passive Mode) or not to arm automatically (Active Mode).

- To **disarm** the Starter Kill, press the **UNLOCK** button on the transmitter. The parking lights will flash twice. If remote door locks are installed, this will also unlock the doors.
- To **arm** the Starter Kill, press the **LOCK** button on the transmitter. The parking lights will flash once. If remote door locks are installed, this will also lock the doors.
- In **Passive Mode**, the Starter Kill will automatically arm if the ignition key is not inserted into the ignition switch within 1 or 3 minutes after unlocking (the key sense feature must be installed).

## Remote-Starting Your Vehicle

### Setting Your Vehicle into Ready Mode

This product is designed for vehicles with a **manual** transmission only. In order to start the vehicle by remote, the unit must first be set to Ready Mode. If the unit is not set to Ready Mode, it cannot remote-start the vehicle.

Once the system is set to Ready Mode, the vehicle can be remote-started and stopped at wish. The system will exit Ready Mode if a door or the hood is opened, if the brake pedal is pressed, if the parking brake is disengaged or if the ignition key is turned to the **IGNITION ON (RUN)** position.

#### To set the system to Ready Mode:

1. Ensure that all the doors are closed and that the gear selector is in the neutral position.
2. With the engine already running, apply the parking brake and release the brake pedal. **Make sure to release the brake pedal.**
3. Within 20 sec. press **LOCK**, **UNLOCK** or **START/STOP** on the transmitter. **The parking lights will flash 3 times quickly and remain lit.**
4. Remove the key: the engine will go on running.
5. Exit the vehicle and close the door.
6. Press and hold either:
  - a. **LOCK** to lock the doors and shut down the engine;
  - b. **UNLOCK** to unlock the doors and shut down the engine;
  - c. **START/STOP** to shut down the engine without affecting the doors.

### Remaining In Ready Mode

Once the vehicle is in Ready Mode you can start and stop the vehicle at wish. However, should any of the following occur, the vehicle will exit Ready Mode – thus eliminating the remote start option until Ready Mode is restored:

- Door opened;
- Hood opened;
- Brake pedal pressed;
- Parking brake disengaged;
- Ignition key turned to the **IGNITION ON (RUN)** position.

Should any of the above occur, Ready Mode will be cancelled.

**Note:** The unit will notify the user that it has exited Ready Mode by giving 3 slow flashes (parking lights).

## Remote-starting

Press the **START/STOP** button for approx. 1 second. The parking lights will come **ON** to inform you that the Remote Car Starter has received your signal. Approximately 5 seconds later, the engine will start. The parking lights will remain **ON** during the pre-programmed run time of the engine.

If the vehicle does not start at the first attempt, the system will shut down.

## Driving Off

With the vehicle running under remote control, press the **UNLOCK** button to disarm and unlock the doors. Enter the vehicle and do the following:

- Turn the ignition key to the **IGNITION ON (RUN)** position. (**Do not turn the key to the CRANK position while the engine is running.** This would cause the starter motor to re-engage.)
- Press the brake pedal to disengage the remote starter unit.

You are now ready to drive off.

## Remote Starter Features

### Idle Mode

**Convenience feature:** Idle Mode allows you to keep the engine running and the doors locked while you stop, for example, at a convenience store or for a short delivery.

This feature allows you to let the remote starter take over control of the vehicle (i.e. no Key in the Ignition Switch) while the engine is running. For example, if you stop for a delivery or at a convenience store, lock your vehicle and leave it running for the length of a run cycle while you are away. Idle Mode can be activated through the same routine as that used for Ready Mode; at the last step, the **TRUNK** button is pressed instead of the other buttons:

1. Ensure that all the Doors are closed and that the Shifter is in the Neutral position.
2. With the Engine already running, apply the Parking Brake and release the Brake Pedal. **Make sure to release the brake pedal.**
3. Within 20 sec. push **LOCK**, **UNLOCK** or **START/STOP** on the Transmitter. **The parking lights will flash 3 times quickly and remain lit.**
4. Remove the key: the Engine will go on running.
5. Exit the vehicle and close the Door.
6. Press the **TRUNK** button until the system is armed (the doors will be locked if remote door lock is installed).

If the pre-programmed run-time expires or if the user shuts down the engine by remote control, the vehicle will get in Ready Mode.

**Caution!!!** Do not leave children or pets unattended in a vehicle standing in Idle Mode.

### Valet Modes

When your vehicle is in valet mode, the remote starter functionalities are disabled. If the vehicle needs to be serviced, or if you park it indoors, the valet mode will prevent the engine from being remote-started accidentally.

**When the vehicle is set to valet mode, the LED remains ON (it does not flash). The LED will turn itself off ONLY when the ignition key is turned to the IGNITION ON position.**

#### Ignition Valet

This feature will allow you to remotely put your system into Valet Mode by using the ignition key instead of the Valet button as above. Ignition Valet can be used without a Valet button installed.

#### To put the system into Valet Mode:

- Insert the ignition key into the ignition switch. Within 10 sec., turn the key 5 times

successively into the **IGNITION ON / RUN** and **OFF** positions.

- The parking lights will flash three times to indicate that the vehicle is now in Valet Mode. The L.E.D. will come **ON** solid once the ignition key is removed.

#### **To take the system o u t o f Valet Mode:**

- Insert the ignition key into the ignition switch. Within 10 sec., turn the key 5 times successively into the **IGNITION ON / RUN** and **OFF** positions.
- The parking lights will flash twice to indicate that the vehicle is now in Valet Mode. The L.E.D. will go out.

**Note:** With the Remote Valet activated, the remote starter will be disabled.

#### **Remote Valet Mode**

This feature will allow you to remotely put your system into Valet Mode by using the transmitter instead of the Valet button as above.

#### **Getting into Valet Mode**

- Hold the **UNLOCK** and **START/STOP** buttons simultaneously for 3 second.
- **The Parking Lights will flash 3 times.**

The LED will remain on solid.

#### **Getting out of Valet Mode**

- Hold the **UNLOCK** and **START/STOP** buttons simultaneously for 3 second.
- **The Parking Lights will flash 2 times.**

The LED will turn off.

#### **Panic Mode**

**Note:** Panic mode can only be activated if the horn has been adequately configured by your installer.

In an emergency situation, you can activate panic mode by pressing and holding the **SHIFT** button for 3 seconds. If the vehicle is under a remote start, you can shutdown the engine, stop the horn and lock your doors by pressing the **LOCK** button:

If the car is not running, you can stop the horn by pressing the **LOCK** or **UNLOCK** buttons but it will not lock or unlock the doors.

Furthermore, the panic mode can be stop by activating one of the following three (3) features:

- a) Remote valet (pressing **UNLOCK** and **START/STOP** for 3 seconds)
- b) Ignition valet (turning the key inside the ignition switch from **OFF** to **ON** 5 times in a row)
- c) By pressing the valet switch (if included).

Panic Mode will automatically shut down after **25** sec.

#### **Quick Lockout™**

(Also called **Secure Panic.**) For fast protection in emergency situations, the system will **LOCK** all doors when you **press the brake pedal while you hear the sound signal.** (**Quick Lockout** is only available when **Panic Mode** has been set off.)

#### **Cold Weather Mode**

When Cold Weather Mode is active, the engine starts every 2 hours and runs for 3 minutes (or for 8 or 20 minutes with diesel engines). **The System must be in Ready Mode in order to enter Cold Weather Mode.** Cold Weather Mode automatically ends after 24 hours.

#### **To enter Cold Weather Mode:**

- Press the **SHIFT** button and then press and hold the **START/STOP** button for 3 seconds until the parking lights flash three times.

#### **To exit Cold Weather Mode, do any one of the following actions:**

- Open the hood.
- Start the engine by remote.
- Turn the ignition key to the **IGNITION ON (RUN)** position.

- Press the brake pedal.
- Press the **SHIFT** button then press and hold the **START/STOP** button for 3 sec. **(the parking lights will flash once).**

When the vehicle exits Cold Weather Mode, the Parking Lights will flash once.

**If Safe Start is enabled, you can activate Cold Weather Mode by**

- Pressing and releasing the **SHIFT** button, then
- Pressing and holding the **START/STOP** button until the parking lights flash 3 times.

**Extended Run Time**

With the vehicle running under a remote start, **pressing and holding the START/STOP button for more than 1 second** will reset the run time counter to zero and restart the run time cycle from the beginning.

To stop the vehicle, at any moment, simply press the **START/STOP** button. This procedure can only be carried out once per remote start.

**Example:** if your Module is programmed for a run time of 3 minutes and your vehicle has been running for 2 minutes already, pressing the **START/STOP** button will reset the counter to zero and the Engine will run for another cycle (in this case, 3 minutes).

**Feature Confirmation Chart**

Feature	LED #1	LED #2	LED #3	LED #4	Beep(s)
Lock	3 flashes	X	X	X	1
Unlock	X	3 flashes	X	X	2
Trunk	X	X	3 flashes	X	1
LED ON/OFF	3 flashes	3 flashes	X	X	1
Start	X	X	X	3 flashes	1
Running	X	X	X	3 flashes	3
Stop	X	X	X	3 flashes	2
Entering Cold Weather Mode	X	X	X	3 flashes	2
Exiting Cold Weather Mode	X	X	X	3 flashes	1
Home Valet	3 flashes	X	X	3 flashes	2
Valet Mode	3 flashes	X	X	3 flashes	1
Exit ValetMode	X	3 flashes	X	3 flashes	1
Fail Start Attempt	X	X	X	4 flashes	4

**Advanced Features: Installation-programmable Options**

The remote car starter was designed with flexibility and OEM integration in mind. With its programmable options, this unit can single-handedly control nearly any electrical system in your vehicle.

**Caution:** The programming of your system should be left to a professional. Changing any one of the settings may affect the operation of your Remote Car Starter.

**Remote Door Locks**

If your Remote Car Starter was installed with the Remote Door Locks option, you will have the convenience of remote keyless entry. See section **Arming the Starter Kill**, earlier in this Guide, for further instructions on remote door locking and unlocking.

## Priority Door Access

If the Remote Door Locks option is installed on your vehicle, this safety feature allows you unlock solely the driver's door with a single press of the **UNLOCK** button on the transmitter; upon a second press of the **UNLOCK** button, all the other doors will unlock.

## Ignition-controlled Door Locks

This is an added security feature. If your Remote Car Starter was installed with the Ignition-Controlled Door Locks option, the doors will automatically be locked as soon as the ignition key is turned to the **IGNITION ON (RUN)** position while the brakes are pressed. When the key is turned to the **OFF** position, the doors will automatically be unlocked.

## Ignition Re-lock

On Remote Car Starters of this series, when Ignition-controlled Door Locks are enabled and the ignition key is in the **IGNITION ON (RUN)** position, should any door be unlocked and opened, all doors will be relocked next time the brake pedal is pressed.

## Secure Lock

Before it can remote-start your vehicle, the Remote Car Starter must first disarm the factory security system. The Secure Lock feature may be required on certain vehicle models with factory security systems that automatically unlock the doors when the security system is disarmed.

To keep your vehicle protected when the factory security system is disarmed for a remote start, Secure Lock will relock your doors as soon as the vehicle has started. Once the engine run cycle ends, Secure Lock will rearm your factory security system.

## Remote Trunk Release

If your system was installed with the remote trunk release option, you can open your trunk by pressing the **TRUNK** button for 3 seconds.

## The Starter Kill and the Anti-grind Feature

With this added security feature, the system will prevent your vehicle from starting with the ignition key when the Starter Kill is armed. If your Remote Car Starter was installed with the Starter Kill option, one will not be able to start your vehicle with the key unless the system has been unlocked and disarmed first, or put into Valet Mode.

**Note:** If the Starter Kill is installed, your vehicle will benefit from a protection against starter motor damage that could occur after remote-starting the engine should the user, by force of habit, turn the ignition key to the **CRANK** position.

## Safe Start

If this feature is enabled, the user must press the **START/STOP** button 2 times within 3 seconds to remote-start the vehicle. This will eliminate accidental remote starts, e.g. when children are playing with the transmitter.

1. Press and release the **START/STOP** button.

### The parking lights will turn on.

2. Within 2 seconds of the parking lights turning on, press and release **START/STOP** again (before the parking lights turn off).

If **Swap Start Mode** is selected, to remote-start your vehicle press **SHIFT** and then **LOCK**. The **AUX 2** output can be activated by pressing the **START/STOP** button.

## Installer-Programmable Valet Modes

Valet Mode Using the Valet Switch (if installed)

### To put the system i n t o Valet Mode:

- Turn the ignition key to the **IGNITION ON (RUN)** position.
- Within 3 sec., press the valet button, the parking lights will flash three times and the L.E.D. will come on solid once the ignition key is removed.

### To take the system o u t o f Valet Mode:



- Turn the ignition key to the **IGNITION ON (RUN)** position.
- Within 3 sec., press and release the valet button , the parking lights will flash twice the L.E.D. will turn itself off.

**Note:** Once Valet Mode is activated, the remote starter will be disabled.

### “Home Valet™” Mode

If configured at installation, this feature will remotely set the vehicle to a no-remote-start mode: if the vehicle is parked indoors there is no danger of it starting accidentally by remote control.

**Note:** Once the Home Valet Mode is activated, the vehicle will not start by remote.

### To take the system i n t o Home Valet Mode:

- Press the **LOCK** button.
- Within 3 seconds, press the **START/STOP** and **LOCK** buttons simultaneously until the Parking Lights go **out**.

### To take the system o u t o f Home Valet Mode:

- Turn the ignition key to the **IGNITION ON (RUN)** position.

The system will warn you if someone attempts to start your vehicle while it stands in Home Valet Mode. The parking lights will:

- Go **ON** then **OFF**; then
- Flash **twice**, pause; then
- Flash **twice** again.

### Turbo Mode

If Turbo Mode is configured at installation, it will allow a turbocharger to idle down after the user leaves the vehicle: the unit will take over the vehicle and keep it running for 60 seconds (or until it is shut down by remote control), then shut down the engine and set the Remote Car Starter to Ready Mode.

### To activate Turbo Mode, follow all steps of the Ready Mode routine :

1. Ensure that all the doors are closed and that the shifter is in the neutral position.
2. With the engine already running, apply the parking brake and release the brake pedal.  
**Make sure to release the brake pedal.**
3. Within 20 sec. press **LOCK**, **UNLOCK** or **START/STOP** on the transmitter.  
**The parking lights will flash 3 times quickly and remain lit.**
4. Remove the key: the engine will go on running.
5. Exit the vehicle and close the door.
6. Press and hold either:
  - a. **LOCK** to lock the doors and shut down the engine after 60 sec.;
  - b. **UNLOCK** to unlock the doors and shut down the engine after 60 sec.;
  - c. **START/STOP** to shut down the engine immediately, without affecting the doors (this will by-pass Turbo Mode).
  - d. **TRUNK TO SET THE VEHICLE INTO IDLE MODE**

### Engine Run Time

If you have a gas engine, your Remote Car Starter can be programmed to run the engine for 3, 15, or 25 minutes (15 minutes by default). If you have a diesel engine, the Remote Car Starter can be programmed to run the engine for 8, 20, or 30 minutes (20 minutes default).

### Flashing LED

The user may decide to turn on or off LED flashing at any moment. To do so, press and hold the **LOCK** and **UNLOCK** buttons for 3 seconds:

- **Flashing LED ON:** the L.E.D. will flash at all times (either under active arming or under passive arming) to indicate that the starter kill is active.
  - **Active Arming:** the LED will flash normally.
  - **Passive Arming:** the LED will not flash during the countdown preceding the activation of the Starter Kill. Once the Remote Car Starter is armed, the LED will flash at a normal rate.
  - **In Valet Mode:** the LED will remain lit without flashing.
- **Flashing LED off:** the LED will not flash even when the module is armed (either under active or passive arming). Nevertheless, if the module enters valet mode, the LED will still remain lit without flashing as long as the ignition is off.

## Multi-car Operation

This option allows the owner of two vehicles, both equipped with the same Remote Car Starter model, to control both systems with a single remote control. **To control the second vehicle:**

- Press TRUNK + LOCK buttons simultaneously: ..... LOCK
- Press TRUNK + UNLOCK simultaneously: ..... UNLOCK
- Press TRUNK + START/STOP simultaneously: ..... START
- Press TRUNK + START/STOP simultaneously: ..... STOP
- Press SHIFT > SHIFT > TRUNK: ..... TRUNK

or

- Press SHIFT > SHIFT > LOCK: ..... LOCK
- Press SHIFT > SHIFT > UNLOCK: ..... UNLOCK
- Press SHIFT > SHIFT > START/STOP: ..... START
- Press SHIFT > SHIFT > START/STOP: ..... STOP
- Press SHIFT > SHIFT > TRUNK: ..... TRUNK

**Note:** If the multi-level features have been modified from their default state by your installer, the SHIFT button may have to be pressed once, twice or three times, according to the option you chose.

## Multi-Level Features (default state)

The multi-level features allow you to access different features of your vehicle or of a second car by pressing the shift button once, twice or three times. By default, the multi-level features are programmed as follows:

### Basic features (press the SHIFT button 1X)

- SHIFT > LOCK: .....aux 2
- SHIFT > TRUNK: .....status request
- SHIFT > START/STOP .....cold weather

### Multi-car operation (press the SHIFT button 2X)

- SHIFT > SHIFT > LOCK: .....2<sup>nd</sup> car lock
- SHIFT > SHIFT > UNLOCK: .....2<sup>nd</sup> car unlock
- SHIFT > SHIFT > START/STOP: .....2<sup>nd</sup> car start/stop
- SHIFT > SHIFT > TRUNK: .....2<sup>nd</sup> car trunk

### Customized features (press the SHIFT button 3X)

(May not be applicable for certain vehicles)

Your installer can add customized features such as turning on the radio, opening sliding doors, etc.

- SHIFT > SHIFT > SHIFT > .....LOCK: customized feature 1
- SHIFT > SHIFT > SHIFT > .....UNLOCK: customized feature 2
- SHIFT > SHIFT > SHIFT > .....TRUNK: customized feature 3
- SHIFT > SHIFT > SHIFT > .....START/STOP: customized feature 4

Your installer can customize the system as to personalize these multi-level features in an order that best suits you. Your options are:

**Option 1:**

Level 1 (requires pressing the <b>SHIFT</b> button 1X)	→	Multi car operation
Level 2 (requires pressing the <b>SHIFT</b> button 2X)	→	Basic features
Level 3 (requires pressing the <b>SHIFT</b> button 3X)	→	Customized features

**Option 2:**

Level 1 (requires pressing the <b>SHIFT</b> button 1X)	→	Basic features
Level 2 (requires pressing the <b>SHIFT</b> button 2X)	→	Multi car operation
Level 3 (requires pressing the <b>SHIFT</b> button 3X)	→	Customized features

**Option 3:**

Level 1 (requires pressing the <b>SHIFT</b> button 1X)	→	Customized features
Level 2 (requires pressing the <b>SHIFT</b> button 2X)	→	Multi car operation
Level 3 (requires pressing the <b>SHIFT</b> button 3X)	→	Basic features

**Option 4:**

Level 1 (requires pressing the <b>SHIFT</b> button 1X)	→	Basic features
Level 2 (requires pressing the <b>SHIFT</b> button 2X)	→	Customized features
Level 3 (requires pressing the <b>SHIFT</b> button 3X)	→	Multi car operation

**Example:** If the multi-level features have been modified from their default state to option 3, the setup would be as follows:

For “**Basic features**”:

- To access the **aux. 2** feature, the user needs to press on the **SHIFT** button **three (3)** times followed by the **LOCK** button.
- To access the **status request** feature, the user needs to press on the **SHIFT** button **three (3)** times followed by the **TRUNK** button.
- To access **cold weather mode**, the user needs to press on the **SHIFT** button **three (3)** times followed by the **START/STOP** button..

## Vehicle Status Request

The status request feature allows the user to see the status of the vehicle —i.e.: if the doors are locked or unlocked or if the vehicle is in cold weather mode, home valet mode, in valet mode or how much time is left in the run time cycle. The following charts (Tables 1, 2 and 3) indicate the confirmation sequences.

**To retrieve the vehicle status:**

Press and release the **SHIFT** button then press and release the **TRUNK** button (there will be a beep). The transmitter will then flash the corresponding sequence of LEDs depending on the vehicle’s status.

- **If the engine is NOT running**, refer to Table 1.
- **If the vehicle is in or out of ready mode**, refer to Table 2
- **If the engine IS running under a remote start**, refer to Table 3 (if the doors are locked) or refer to Table 4 (if the doors are unlocked).

The status request feature is a two-step procedure:

- The first sequence of flashes denotes if the vehicle’s doors are locked or unlocked.
- The second sequence of flashes (if applicable) denotes if the vehicle is *Cold weather mode*, *Home valet mode*, or, *Valet mode*.
- If there is no second sequence transmission, then the vehicle is none of the three (3) mentioned features (*Cold weather mode*, *Home valet mode* or *Valet mode*).

### Status Request When the Engine IS NOT Running

STATUS	SEQUENCE	LED #1	LED #2	LED #3	LED #4	Beep(s)
Lock		3 flashes	X	X	X	1
Unlock		X	3 flashes	X	X	2
Cold Weather	1 <sup>st</sup> sequence if locked	3 flashes	X	X	X	2
	1 <sup>st</sup> sequence if unlocked	X	3 flashes	X	X	2
	2 <sup>nd</sup> sequence	X	X	X	1 second	X
Home Valet	1 <sup>st</sup> sequence if locked	3 flashes	X	X	X	2
	1 <sup>st</sup> sequence if unlocked	X	3 flashes	X	X	2
	2 <sup>nd</sup> sequence	1 second	X	X	1 second	X
Valet Mode	1 <sup>st</sup> sequence if locked	3 flashes	X	X	X	1
	1 <sup>st</sup> sequence if unlocked	X	3 flashes	X	X	1
	2 <sup>nd</sup> sequence	1 second	X	X	1 second	X

Table 1

### Ready Mode Status Request

STATUS	SEQUENCE	LED #1	LED #2	LED #3	LED #4	Beep(s)
In Ready Mode	if locked	3 flashes	X	X	X	1
	if unlocked	X	3 flashes	X	X	2
Out of Ready Mode	1 <sup>st</sup> sequence if locked	3 flashes	X	X	X	1
	1 <sup>st</sup> sequence if unlocked	X	3 flashes	X	X	2
	2 <sup>nd</sup> sequence	X	X	X	4	4

Table 2

## Status Request When the Engine is Running

### When the vehicle doors are locked:

The LED # 1 will flash 3 times to denote that the vehicle's doors are locked.

### When the vehicle doors are unlocked:

The LED # 2 will flash 3 times to denote that the vehicle's doors are unlocked.

RUN TIME	Beep(s)	LED #1	LED #2	LED #3	LED #4
If there is more than 3/4 of run time cycle	3	ON for 1-sec	ON for 1-sec	ON for 1-sec	ON for 1-sec
If there is more than half of run time cycle	3	ON for 1-sec	ON for 1-sec	ON for 1-sec	X
If there is more than 1/4 of run time cycle	3	ON for 1-sec	ON for 1-sec	X	X
If there is less than 1/4 of run time cycle	3	ON for 1-sec	X	X	X

Table 3

## Troubleshooting Poor Transmitting Range

Many factors may affect the operating range of the transmitter. Some of these are:

- The condition of the battery in the transmitter.
- The operating environment (for example: downtown radio-frequency noise, airports, cellular phone towers...)
- Metal: any type of metal will affect operating range. This includes the metal in the car.
- The shape of the vehicle can affect range as well; vans in general have an especially poor range.
- The shape of the roof and A-pillars brings about considerable radio-frequency deflection (in this case the signal from the remote control). As a result, the direction in which the vehicle is facing in relation to the remote control can affect the range. Straight on – standing in front of the vehicle – generally gives you the greatest range; the second best performance is from the back. Using the remote control from either side of the vehicle will usually give the lowest range.
- The range will be significantly lower in a crowded parking lot than in open space.
- Always hold the transmitter high, approximately at shoulder height. Holding the transmitter against your chin will also increase your range: your head acts as an antenna.
- The operating range will be somewhat lower on vehicles equipped with an aftermarket or factory alarm.

## Diagnostics – Parking Light Flash Table

Flashes	Description	
1	<ul style="list-style-type: none"> <li>• Doors locked, starter kill armed.</li> <li>• Run time has expired.</li> <li>• <b>TRUNK</b> 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	<ul style="list-style-type: none"> <li>• Start attempt failed because no tach signal has been programmed.</li> </ul>	
5 Fast	<ul style="list-style-type: none"> <li>• Tach signal programmed.</li> </ul>	
6	<ul style="list-style-type: none"> <li>• A remote start was attempted while a tach-before-crank signal was detected before cranking.</li> </ul>	
8	<ul style="list-style-type: none"> <li>• Unit reset: occurs when the unit is reset to the factory defaults</li> </ul>	
10	<ul style="list-style-type: none"> <li>• A ground (-) signal was detected on the hood pin input wire.</li> </ul>	
1 — pause — 1 — pause — 5 flashes	<ul style="list-style-type: none"> <li>• Transmitter has been programmed. [During the transmitter programming procedure]</li> </ul>	
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>	
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.	<ul style="list-style-type: none"> <li>• Confirms that cold weather mode is engaged</li> </ul>
ON 2 seconds	<ul style="list-style-type: none"> <li>• The hood has been opened and a ground (-) signal has been detected on the hood pin input wire.</li> </ul>	
ON 4 seconds	<ul style="list-style-type: none"> <li>• Locking or unlocking a door (with Door pulses configured to 4 sec.)</li> </ul>	
ON 20 seconds	<ul style="list-style-type: none"> <li>• The hood pin has been flashed and you are now in the programming centre.</li> </ul>	
Constant flashes for 25 sec.	<ul style="list-style-type: none"> <li>• Panic Mode is triggered.</li> </ul>	