AUTOSTART™

AUTOMATIC TRANSMISSION MULTI-CHANNEL TWO-WAY LCD REMOTE STARTER SYSTEM

FEATURING eSH TECHNOLOGY

AS-2510 TW

User Guide

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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.

Transmitter Part Number and Module Serial Number

The box below contains important information concerning your Transmitter and your Module. We have entered your Transmitter Part Number. Should you need to order a new Transmitter, you will need to provide Autostart with the Part Number written below.

Transmitter Part Number:

CAR	**:**	**AS5000TW-FM IVU**
REMOTE	**:**	**AS5000TW-FM HHU**

Transmitter (companion) Part Number:

ASTR-2144

The installer is to write in the following box the Module's serial number.

Module Serial Number:

Introduction

The AS-2510 TW is a state-of-the-art remote car starter system with command confirmation. It represents a major breakthrough in vehicle convenience technology and remote starter systems.

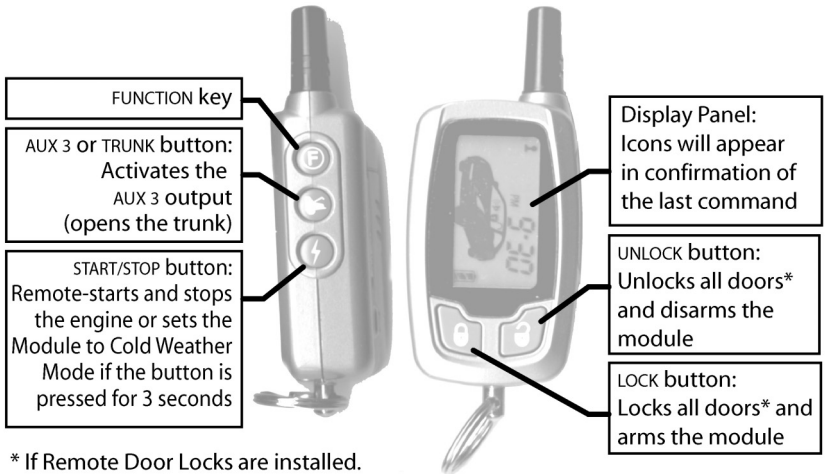
What is "eSH" Technology?

"eSH" technology uses Manchester decoding along with advanced custom data filters to help reduce data-bit transfer errors. This filtering mechanism minimizes dropped commands by the transceiver and develops more reliable range. By using narrow band filtering and unique software driven noise filters, the radio set is able to achieve much better input sensitivity resulting in up to 2000 feet of operating range.

Basic Remote Operation

Your AS-2510 TW is equipped with a multi-channel 5-button LCD remote transmitter. It can operate two independent Autostart-equipped vehicles (see Multi-car Operation for 2nd car functions).

The functions of the transmitter are as follows:



Note: Pressing the **LOCK** and **UNLOCK** buttons simultaneously will activate the **AUX 2** output.

LCD Remote Functions

The Transmitter offers several command-confirmation and timer features. This section explains some of the key functions available on the Remote Control. Next section gives a summary of the button combinations used to access the functions (see **LCD Remote Operation** Tables).

> **Note:**
> If you wish to exit a function while still in the process of accessing it, simply stop and wait for at least 10 seconds: the Remote Control will return to its normal state.

Basic Vehicle Operation

The vehicle can be remote-started and stopped using the **START/STOP** ( ) button. The **TRUNK** ( ) button will open the Trunk (if this feature is installed on the vehicle). The **LOCK** ( ) and **UNLOCK** ( ) buttons will lock and unlock the Doors of the vehicle (if the Remote Door Lock feature is installed on the vehicle) and arm or disarm the Starter Kill (if installed). The **FUNCTION**

(F) button is used to access all advanced functions of the Remote Control. (Refer to the LCD Operation and Confirmations tables.)

Alarm Clock

The LCD Remote Control has a built-in Alarm Clock which can be set up using the F button. Use the F and buttons to switch the Alarm Clock on and off (refer to the tables).

Time Adjust Mode

Use Time Adjust Mode to set the current time on your Remote Control using the F button (refer to the tables).

Countdown Timer

This feature allows set up a countdown of a duration entered by the user in hours and minutes using the F button (refer to the tables).

Parking Countdown

This version of the Countdown feature is particularly useful for keeping track of parking meter time: the user may quickly set up the countdown in slices of 10 or 30 minutes using the F and buttons (refer to the tables).

Melody Selection

The Remote Control allows the user to select which melodies are to be used upon the following events: remote starting of the vehicle, the Alarm, ending of the countdown, entering Cold Weather Mode. Melodies for these various events can be selected using the F button (refer to the tables).

Vibration Mode

Use this feature to replace audible signals with a vibration signal. Use the F and buttons to switch Vibration Mode ON and OFF (refer to the tables).

Power Saving Mode

When set to Power Saving Mode, the Remote Control will cease polling the Remote Starter Module on a regular basis for status information. This will extend battery life. Use the F and buttons to switch Power Saving Mode ON and OFF (refer to the tables).

Remote Control Finder

This function allows the user to locate the Remote Control when it has been accidentally dropped near the vehicle. Pressing the Valet Button and holding it down for 3 seconds (or until the Parking Lights flash five times) will cause the Remote Control to start beeping for one minute. The beeping will stop by itself after one minute, or it can be switched off by pressing the Lock ( ) or the Unlock ( ) button on the Remote Control.

LCD Remote Operation

(First Car Control)

NOTE:
The following section explains the functions the Transmitter can provide. If you wish to exit a function while you are accessing it, simply stop and wait at least 10 seconds, the Transmitter will return to normal.

Basic Vehicle Operations

FUNCTION	BUTTON PRESSED	ICON	BUZZER	INSTRUCTIONS /DESCRIPTION
LOCK			1 Beep	LOCK AND ARM THE STARTER KILL
UNLOCK			2 Beep	UNLOCK AND DISARM THE STARTER KILL
TRUNK OR AUX 3			1 Beep	TRUNK OUTPUT
START * (See Runtime Options below)		+	MELODY	START THE ENGINE
STOP		None	MELODY	STOP THE ENGINE
Light ON	F	ON for 10 seconds		Press F once

Transmitter Mode Selection

FUNCTION	BUTTON PRESSED	ICON	BUZZER	INSTRUCTIONS /DESCRIPTION
POWER-SAVING MODE	+ (F +)	SAVE + -	MELODY	Press UNLOCK first and then press the Function button and the Lock button simultaneously.
VIBRATION MODE	PRESS AND HOLD F AND THEN PRESS		VIBRATES 4X	
ALARM CLOCK MODE ON/OFF	F +	AM PM 8:88	MELODY	● Press once to have ALARM CLOCK ON ● Press twice to have ALARM CLOCK OFF

Alarm and Countdown Adjustments

On Press Number	FUNCTION	BUTTON PRESSED	ICON	BUZZER	INSTRUCTIONS /DESCRIPTION
1	TIMING ADJUST MODE (HOUR)	Press and hold F for 5 sec	AM PM 8:88	2 BEEPS	
2	TIMING ADJUST MODE (MIN)	2nd Press of F			
3	ALARM CLOCK ADJUST MODE (HOUR)	3rd press of F	AM PM 8:88		
4	ALARM CLOCK ADJUST MODE (MIN)	4th press of F			
5	ALARM CLOCK MUSIC OR POWER ON MUSIC SELECTION	5th press of F	8	5 SELECTIONS 1,2,3,4,5	● press for upward adjustment or choice ON mode. ● press for downward adjustment or choice OFF mode. ● F To cycle to the next options
6	ALARM CLOCK ADJUST MODE (ON/OFF)	6th press of F	ON / OFF		
7	TIMING COUNT DOWN ADJUST MODE (HOUR)	7th press of F	18:88		
8*	TIMING COUNT DOWN ADJUST MODE (MIN)	8th press of F			
9	TIMING COUNT DOWN ENDING MELODY SELECTION 1	9th press of F	8	5 SELECTIONS 1,2,3,4,5	
10	TIMING COUNT DOWN MODE (ON/OFF)	10th press of F	ON / OFF		
11	START COMMAND CONFIRMATION	11th press of F	S 8	5 SELECTIONS 1,2,3,4,5	

Cold Weather Mode

FUNCTION	BUTTON PRESSED	ICON	BUZZER	INSTRUCTIONS /DESCRIPTION

TO ENTER COLD WEATHER MODE	ϟ	24H	BEEP	Press and hold ϟ for 3 seconds.
TO EXIT COLD WEATHER MODE	ϟ	None	None	Press and hold ϟ for 3 seconds
TO ENTER COLD WEATHER MODE IN SAFE START MODE	ϟ X 2	24H	BEEP	Press ϟ twice within 3 seconds. Press and hold for 1 sec-BEEP- then press and hold for 3sec.
TO EXIT COLD WEATHER MODE IN SAFE START MODE	ϟ X 2	None	None	Press ϟ twice within 3 seconds. Press and hold for 1 sec-BEEP- then press and hold for 3sec.

Home Valet™

FUNCTION	BY PRESSING	ICON	BUZZER	INSTRUCTIONS / DESCRIPTION
TO ENTER HOME VALET™ MODE	**Step 1 :** or **Step 2 :** + ϟ Simultaneously within 5 sec.	ZZ	1 BEEP	Press or Within 5 seconds, press + ϟ : the Transmitter will display ZZ and you will hear 1 beep.
TO EXIT HOME VALET ™ MODE	NONE	NONE	NONE	INSERT KEY IN INGNITION SWITCH AND TURN TO THE ON POSITION. THE ICON WILL DISAPPEAR.

Timing Countdown Adjustment

(see "ON PRESS NUMBER" 8 of **Alarm and Countdown Adjustment**)

FUNCTION	BY PRESSING	ICON	BUZZER	INSTRUCTIONS / DESCRIPTION
FOR PARKING COUNT DOWN PRESS AND HOLD F THEN PRESS	1st time	0:10	MELODY	10 MIN PARKING COUNT DOWN MODE
	2nd time	0:20	MELODY	20 MIN PARKING COUNT DOWN MODE
	3rd time	0:30	MELODY	30 MIN PARKING COUNT DOWN MODE
	4th time	1:00	MELODY	60 MIN PARKING COUNT DOWN MODE
	5th time	1:30	MELODY	90 MIN PARKING COUNT DOWN MODE
	6th time	2:00	MELODY	120 MIN PARKING COUNT DOWN MODE
	7th time	0:00	MELODY	PARKING COUNT DOWN OFF MODE

Please NOTE:
Once the Countdown is activated it will continue counting down until reaching 0:00. If the Timer has not reached 0:00 and you are starting the vehicle, you should reset your Countdown Timer to 0:00 before starting your vehicle as to avoid being startled.

Safe Start Mode

FUNCTION	BY PRESSING	ICON	BUZZER	INSTRUCTIONS / DESCRIPTION
START ON SAFE START MODE	X 2	+	MELODY	Press twice within 3 seconds. Press for 1 sec-melody-then press 1sec.
STOP ON SAFE START MODE		None	MELODY	

*Runtime Status (Indicational purpose only)

FUNCTION	BY PRESSING	ICON	Gasoline	Diesel
ENGINE RUNTIME			4 minutes	9 minutes
			15 minutes	20 minutes
			25 minutes	30 minutes

LCD Transmitter Operation and Confirmations

(Second Car Control)

Basic Operations

FUNCTION	BUTTON PRESS	ICON	BUZZER	DESCRIPTION
LOCK	+		1 Beep	
UNLOCK	+		2 Beep	
START	+	+	MELODY	
STOP	+	None	MELODY	
TRUNK	+ +	TRUNK on vehicle will pop up	BEEP	

Start/Stop While in Safe Start Mode

FUNCTION	BUTTON PRESS	ICON	BUZZER	DESCRIPTION
START ON SAFE START MODE	+ X 2	+	MELODY	Press + simultaneously twice within 3 seconds. Press for 1 sec- a BEEP will be heard- then press 1sec and a melody will be heard again.
STOP ON SAFE START MODE	+	None	MELODY	

Timing and Alarm Adjustment

To apply changes to the hours, minutes melody, etc. you must press and hold the Function button for three (3) seconds after which the hour position will start to flash. To navigate through the options, simply press the Function button until you reach the desired position.

Transmitter Finder

If the remote is misplaced, the user can locate it by calling it. In order to do so, press and hold the Valet switch for three (3) seconds or until the Parking Lights flash five (5) times. The Transmitter will start beeping. It will beep for a maximum of 60 seconds and then it will stop. If the user retrieves the Transmitter before the 60 seconds are up, he can press the **LOCK** or **UNLOCK** button to stop the beeping.

Remote-starting Your Vehicle

Press the **START/STOP** button for approx. 1 second The melody will play then stop, once the vehicle starts the melody will play again and the icon "run" will flash for confirmation. The icon will stop flashing when the key is inserted and turned to the "ON" position or when the entire pre-programmed engine run time has elapsed.

If the vehicle doesn't start the first time, the system will shut off, wait a few seconds and try to start the engine again. It will make three start attempts before giving up.

Vehicle Presets

Heater and 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 and 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.

Driving Off

With the vehicle running under remote control, press the **UNLOCK** button to disarm the system (and unlock the doors if Remote Door Locks are installed). Enter the vehicle and do the following:

1. **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 will cause the starter motor to re-engage unless the Anti-Grind option has been installed.)
2. **Press the brake pedal to disengage the remote starter unit**.

You are now ready to drive off.

Using the AS-2510 TW: Advanced Features

Idle Mode

This feature allows you to remove the ignition key from the ignition switch and leave the vehicle running for its pre-programmed run time while you are away from your vehicle, or until it is shut down. (To set the run time see Engine Run Time)

To enable the Idle Mode:

1. Press and hold the **LOCK**, **UNLOCK** or **START/STOP** button on your remote transmitter while the engine is running.
   - Pressing **LOCK** or **UNLOCK** will unlock the doors.
   - Pressing **START/STOP** will leave the doors unaffected.
2. The parking lights will come **ON**.
3. Remove the ignition key, exit the vehicle and lock the doors.

The engine will go on running. It will shut down when the pre-programmed run time expires.

Caution: Do not leave children or pets unattended in a car running in Idle Mode.

Note: When enabling Idle Mode, pressing **LOCK** or **UNLOCK** will unlock the doors (if Remote Door Locks are installed).

Turbo Mode

When programmed (at the time of installation), this Option allows turbochargers to idle down: after the user leaves the vehicle, the Engine will keep running for 60 sec. And shut down.

Proceed as follows to activate Turbo Mode:

1. With the Engine already running press LOCK on the Transmitter Until the Parking Lights come on.
2. Remove the key: the Engine will go on running.
3. Exit the vehicle and close the Door.
4. Press the TRUNK button to lock the Doors and shut down the Engine after 60 sec. running in Turbo Mode.

"Home Valet" ™ Mode

This safety feature will remotely place the vehicle into a no-remote-start mode: if the vehicle is parked indoors there is no danger it will start accidentally by remote control or external trigger.

To enter Home Valet Mode:

- Press **LOCK** or **UNLOCK** on the Transmitter.
- Within 5 seconds, press **LOCK + START**: the Transmitter will display the "Valet" icon and you will hear a beep.

To exit Home Valet Mode, turn the ignition key to the IGNITION ON (RUN) position.

Note: Once Home Valet is activated, the vehicle will not start by remote control or external trigger until the ignition key is turned to the **IGNITION ON** (**RUN**) position.

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 seconds.
- **The Parking Lights will flash 3 times.**

The Transmitter will BEEP once and will display the icon; the LED will remain on solid.

Getting out of Valet Mode

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

The Transmitter will BEEP once and the icon will disappear; the LED will turn off.

Note:

With the Remote Valet activated, the remote starter function will be disabled.

Valet Mode

The system can be placed in Valet Mode to disable the remote starting capabilities. If the vehicle needs to be serviced, or if you park it indoors, the Valet Mode will prevent the engine from being accidentally started by remote control.

To put the system into Valet Mode:

1. Turn the ignition key to the IGNITION ON (RUN) position.
2. Within 3 sec. press and hold the valet button for approx. 1 sec. The L.E.D. will turn ON and remain lit.
3. The Transmitter will display the Valet icon .

To take the system out of Valet Mode:

1. Turn the ignition key to the IGNITION ON (RUN) position.
2. Within 3 sec. press and hold the valet button for approx. 1 sec. The L.E.D. will go OFF. The Valet Icon will disappear from the Transmitter screen.

The valet button can only be used if the ignition key is in the IGNITION ON (RUN) position.

Panic Mode (this option must be programmed)

In an emergency situation, you can activate Panic Mode using the LOCK or UNLOCK button. This will:

- Shut down the engine,
- Unlock the doors (if UNLOCK is pressed)
- or lock the doors (if LOCK is pressed),
- Disarm the Starter Kill and
- Activate the horn for 30 seconds.

(See page 4 for a description of the Starter Kill option.)

To trigger Panic Mode:

- Press and hold the UNLOCK button for approximately 3 seconds until the horn starts to sound and the parking lights flash: this will unlock the doors before the horn starts.
- **Or** press and hold the LOCK button for approximately 3 seconds until the horn starts to sound and the parking lights flash: this will lock the doors before the horn starts.

Panic Mode will automatically shut off after 30 seconds.

Note: If you want to stop Panic Mode before the 30-second delay, press the LOCK or UNLOCK button.
Caution: Panic Mode will be available only if Horn Confirmation was configured at installation.

Quick Lockout™

(Also called **Secure Panic**.) For fast protection, the system will LOCK all doors when you **press the brake pedal while the horn is activated and the system is in Panic Mode**. (Quick Lockout is only available when Panic Mode has been activated.)

Remote Door Locks Option

If your AS-2510 TW was installed with the Remote Door Locks option, you will have the convenience of remote keyless entry.

To unlock your doors and disarm the system:

1. Press and hold the UNLOCK button for approx. 1 sec.
2. The parking lights will flash twice and the LED will turn off to confirm that the doors have been unlocked and that the Starter Kill feature is disarmed if it was installed.

To lock your doors and arm the system:

1. Press and hold the LOCK button for approx. 1 sec.
2. The parking lights will flash once and the LED will flash slowly to confirm that the doors have been locked and that the Starter Kill feature is enabled if it was installed.
   The horn will give one signal if configured at installation.

Cold Weather Mode

When the Cold Weather Mode is active, the engine starts every 2 hours and runs for 4 minutes (or for 9 or 20 minutes with Diesel engines); this routine will go for a period of 24 hours.

To activate Cold weather Mode:

Press and hold start/stop button for three seconds. The parking lights will flash 3 times. There will be one (1) beep as a confirmation and the 24H icon will be displayed.

If in safe start Mode, to activate Cold Weather:

Press and hold start/stop for 1second, the parking lights will flash once. Press and hold start/stop again for 3 seconds, the parking light will flash 3 more times.

To exit Cold Weather Mode, do any of the following:

a) Open the Hood.
b) Start the Engine by remote.
c) Turn the Ignition Key to the **IGNITION ON (RUN)** position.
d) Place the vehicle into Valet Mode.
Press and hold **START/STOP** buttons for 3 seconds the 24H icon will disappear.

To exit Cold Weather in Safe Start Mode:

Press and hold **START/STOP** for 3 seconds, the parking light will flash 3 more times.
You can also exit **Safe Start Mode** by using steps “a” to “d” from the above description.

Priority Door Access

When programmed, this safety feature lets 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.

The user-selectable options are as follows:

- Remote Door Locks
- Safe Start
- Starter Kill/ Anti-Grind
- Passive or Active Arming Starter Kill
- Ignition-controlled Door Locks
- Horn Honk on Lock
- Ignition Re-lock
- Secure Lock
- Remote Trunk Release
- Engine Run Time
- Multi-car Operation
- Turbo Mode (Turbo Cars)

Remote Door Locks Option

If your AS-2510 TW was installed with the Remote Door Locks option, you will have the convenience of remote keyless entry.

Safe Start

If this feature is enabled, it will require the user to press the **START/STOP** button twice within 3 seconds to start the vehicle. This will eliminate accidental remote starts (for example: if there are children playing with the Transmitter). To stop the vehicle, the user must press **START/STOP** once.

Starter Kill Option

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 Autostart was installed with the Starter Kill option, you will not be able to start your vehicle with the Key unless the system has been unlocked first.

Passive or Active Arming

The Starter Kill option can be programmed to be active (will not arm automatically) or passive (will arm automatically). In Passive Mode, the system can be configured to arm automatically either after 1 minutes or after 3 minutes. If installed, the Starter Kill of your AS-2510 TW is configured by default to a **1-minute Passive Arming Mode:** the countdown starts when the Ignition is turned off.

- To **disarm** the Starter Kill option in Active or Passive Mode, press the **UNLOCK** button on the transmitter. The parking lights will flash twice. (If Remote Door Locks were installed, this will also unlock the doors.) In Passive Mode, the system will automatically re-arm 1 or 3 minutes after the doors were unlocked unless the ignition key has meanwhile been inserted in the ignition switch.

- To **arm** the Starter Kill option in Active or Passive Mode, press and hold the **LOCK** button on the transmitter. The parking lights will flash once. (If Remote Door Locks were installed, this will also lock the doors). In Passive Mode, the system will automatically arm 1 or 3 minutes after the engine has been turned off.

Important note: When the system re-arms automatically, you can disarm the system again by pressing the **UNLOCK** button.

Ignition-controlled Door Locks Option

This is an added security feature. If your system was installed with the Ignition-controlled Door Locks option, the doors will automatically be locked as soon as the brake pedal is pressed after the ignition key has been turned to the **IGNITION ON** (**RUN**) position. When the ignition key is turned to the **OFF** position, the doors will automatically be unlocked.

Ignition Relock

On the AS-2510 TW, whenever the Ignition-controlled Door Locks are enabled and the ignition key is in the **IGNITION ON** (**RUN**) position, when the brake pedal is pressed the system will automatically **LOCK** any door that has been unlocked, opened and closed.

Secure Lock Option

Before it can remote-start your vehicle, the module 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 Option

If your system was installed with the Remote Trunk Release, you can open your trunk by pressing the **TRUNK** button for 3 sec. on the remote transmitter. Note that the Trunk Release option will only operate when ignition is **OFF** or if the vehicle is running under remote control.

Engine Run Time

If you have a gas engine, your AS-2510 TW can be programmed to run the engine for 4, 15, or 25 minutes (15 minutes by default). If you have a diesel engine, the module can be programmed to run the engine for 9, 20, or 30 minutes (20 minutes by default).

Multi-car Operation

This option allows the owner of two vehicles both equipped with AS-2510 TW systems to control both systems with only one remote transmitter. To control the 2nd vehicle, simultaneously press the **TRUNK** button and the button of the function you wish to use:

- Press **TRUNK + LOCK** button simultaneously: .....**LOCK**
- Press **TRUNK + UNLOCK**:.....**UNLOCK**
- Press **TRUNK +** START/**STOP**:.....**START/STOP**
- Press **TRUNK + UNLOCK + LOCK**:.....**TRUNK**

Starting the vehicle in Safe Start Mode:

- ♦ Press **TRUNK + START/STOP**...
- ♦ Within 3 seconds press **TRUNK + START/STOP** again

Stopping the vehicle in Safe Start Mode:

- ♦ Press **TRUNK** + **START/STOP** once.

Diagnostics – Parking Lights Flash Rate (Normal Operation)

Flashes	Description
1	• Doors locked, Starter Kill armed. • End of Run Time. • **TRUNK** button pressed • Start signal received by the Module. • Cold Weather Mode cancelled. • Cannot start after maximum number of attempts is reached.

2	• Remote start attempt cancelled by remote. • Run Time cancelled. • Doors unlocked, Starter Kill disarmed. • Exit Remote Valet
3	• Entering **Cold Weather Mode**. • Entering Remote Valet.
4	• +12 V where detected on the brake line and cranking was cancelled. • Entering Tach-learning Mode
5	• New Transmitter learnt. • Tach learnt.
6	• A remote start was attempted while a Tach or a vacuum signal was detected before cranking.
8	• Unit reset: occurs when the Unit is reset to the factory defaults.
10	• The Hood Switch line went to ground during cranking or Run Time.
1 – pause – 2– pause – 2	• There was an attempt to start the vehicle while the Module was in Home Valet™.
1 – pause – 2	• There was an attempt to start the vehicle while the latter was in Valet Mode.
2 – pause – 3	• Get into Cold Weather Mode when in Safe Start Mode.
2 – pause – 1	• Exit Cold Weather Mode when in Safe Start Mode.
ON solid	• **Cold Weather Mode**: the Brake Pedal is being held down (automatic-transmission models only). Entering Idle Mode and Turbo Mode.
ON 2 sec.	• The Hood is up and the Hood Switch line went to ground. This is step one of the Programming Modes.
ON 3 sec.	• First press of the **START** button under Safe Start.
ON 4 sec.	• Locking or unlocking a Door (with Door pulses configured to 4 sec.)
ON 25 sec.	• If the Hood Pin-switch has been pressed twice (**down-up / down, up**): the Unit went into step 1 of the Programming cycle and no Transmitter activity was detected for 20 seconds • **Or** the Unit went into step 1 of the Transmitter Code Learning procedure and no activity was detected for a few seconds. The Unit has exited the Transmitter Code Learning 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 event-logging codes. This occurs when the Hood Pin-switch is pressed three times **(down-up / down-up / down-up)**
Constant flashes up to 30 sec.	• Panic Mode.