AS-2450vTW-FM

User Guide

WARNING

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

1. **a) Manual transmission:** 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.
   b) Automatic transmission: When leaving the vehicle, it is the user's responsibility to ensure that the gearshift lever is in "Park" in order to avoid accidents upon remote starting.
   (**Note:** Make sure that the automatic vehicle cannot start in "Drive".)

2. It is the user's responsibility to ensure that the remote starter is disabled or put into valet mode before servicing.

A note concerning the battery inside the transmitter:

Depending on your usage of the transmitter, the battery can last anywhere between 3 to 6 months. When the battery is low, the transmitter will produce two beeps in a repetitive cycle. *At that point you should replace your battery with a new one.* That is why we recommend that you keep a spare battery somewhere handy such as the glove compartment.

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Introduction

This is a state-of-the-art remote 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 of your expectations from high-end commodity and security systems, without neglecting any standard feature commonly offered by entry-level starters.

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.
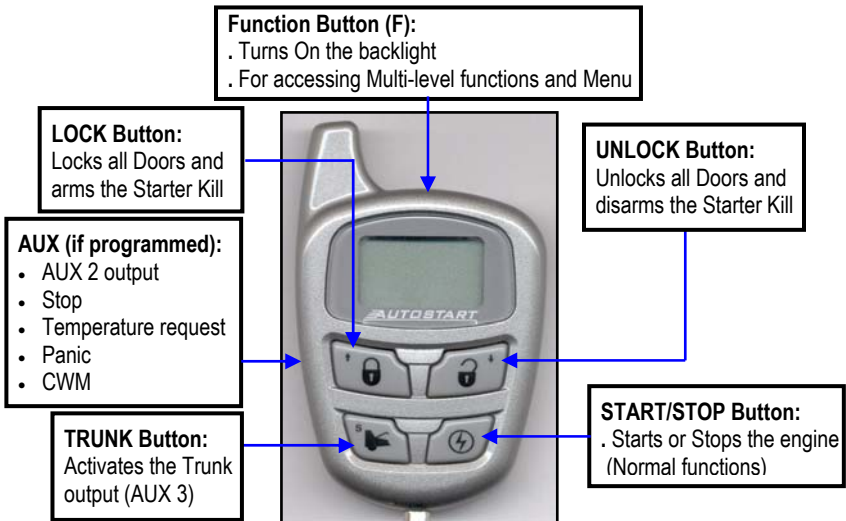
Using the Transmitter

Your remote starter is equipped with a 5-button multi-channel remote control. It can operate two independent vehicles equipped with identical remote starters (see **Multi-car operation** section on page 15).

LCD Remote Functions

The transmitter offers several command-confirmation and timer features. This section explains some of the key functions available. The next section gives a summary of the button combinations used to access the functions.

Note: If you wish to exit a function while still in the process of accessing it, simply stop and wait at least 5 seconds: the transmitter will return to its normal state.

The functions of the transmitter are as follows:

Function Button (F):
. Turns On the backlight
. For accessing Multi-level functions and Menu

LOCK Button:
Locks all Doors and arms the Starter Kill

UNLOCK Button:
Unlocks all Doors and disarms the Starter Kill

AUX (if programmed):
- AUX 2 output
- Stop
- Temperature request
- Panic
- CWM

TRUNK Button:
Activates the Trunk output (AUX 3)

START/STOP Button:
. Starts or Stops the engine (Normal functions)

F button Functionality:
(By default)

F button	**Press Less than 3 seconds**	**LCD display**	**Press more than 3 seconds**
1x	Level 1	L – 01	Enables backlight
2x	Level 2	L – 02	Enables backlight
3x	Level 3	L – 03	Enables backlight
4x	Enters programming mode	MENU	Enables backlight

Note: The order of LEVELS and MENU can be re-arranged in the menu option **FBPRO**.

Backlight:

Press and hold **F** button (for more than 3 seconds and less than 5 seconds), to turn the Backlight **ON** for 3 seconds. If **F** button is pressed down for more than 5 seconds, the backlight will stay **ON** until **F** button is released. A quick way to access the backlight is to press the **F** button quickly (for less than 1second) and the backlight will turn on 3 seconds.

Button $\mathbf{F}$	Backlight
Press for < 1 second	Backlight ON for 3 sec.
Press for > 3 seconds and < 5 seconds	Backlight ON for 3 sec.
Press for > 5 seconds	Backlight will stay ON until button $\mathbf{F}$ is released.

Selecting and adjusting Menu options:
- When in **MENU**, press ⬕ button to enter the menu.
- Press 🔒 button to move up in the menu or 🔓 button to move down in the menu.
- Press ⬕ button to select the option you would like to adjust
- Press 🔒 button to increase the value or to activate or deactivate a function or toggle through the selection.
- Press 🔓 button to decrease the value or to activate or deactivate a function or toggle through the selection.
- Press ⬕ button to move to the next sub-option or go back to the main menu.

Order	Menu Option	LCD display	Function
1	**Parking Menu**	**PARK**	
	Parking hour	**P 0:00** *0 is flashing*	Adjust parking hour (value from 0 to 2)
	Parking minute	**P 0:30** *30 is flashing*	Adjust parking minute (value from 0 to 60)
	Toggle Parking countdown	**P -- ON** *Or* **P – OFF**	Enable or disable parking countdown There is a beep 5min before the Parking countdown reaches 0.
2	**Alarm Clock Menu**	**ALARM**	
	Alarm hour	**A 12:00** **12 is flashing**	Adjust alarm hour (value from 0 to 12)
	Alarm minute	**A 12:00** *00 is flashing.*	Adjust alarm minute (value from 0 to 60)
	Toggle alarm	**A -- ON** *Or* **A – OFF**	Enable or disable alarm
3	**CWM Menu**	**CWM**	Cold Weather Mode
	Toggle CWM mode	**ON** *Or* **OFF**	
4	**VALET Menu**	**VALET**	
	Toggle valet mode	**ON** *Or* **OFF**	
5	**Time Start Menu**	**TSTAR**	
	Time start hour	T 12:00 *12 is flashing.*	Adjust time start hour (value from 0 to 12)
	Time start minute	**T 12:00** *00 is flashing*	Adjust time start minute (value from 0 to 60)
	Toggle time start	**T -- ON** *Or* **T – OFF**	Enable or disable
6	**SECURE Menu**	**SECUR**	Lock the transmitter keypad
	Toggle lock remote	**PRESF** *when remote is locked.*	Selecting **PRESF** will unlock the transmitter keypad

7	Backlight Color Menu	COLOR	
	Backlight	*There 8 different colors*	Blue lights is default
8	LCD On Menu	LCD	
	LCD on time	OFF 01 OFF 15 OFF 30 OFF 60 ON	1min, 15min, 30 min, 60min and ON 1 min is default.
9	Clock Menu	CLOCK	
	Clock hour	12:00 *12 is flashing.*	Adjust clock hour (value from 0 to 12)
	Clock minute	12:00 *00 is flashing.*	Adjust clock minute (value from 0 to 60)
10	Temperature Menu	TEMP	
	Temperature	CTEMP *Or* FTEMP	Deg Celsius or Fahrenheit Deg. Celsius is default
11	Language Menu	LANGU	
	Language	ENG *Or* FRAN	English is default.
12	Side button Menu	SBPRO	Side Button Programming
		PANIC STOP TEMP AUX 2 CWM	AUX 2 output, Stop, Temperature request, Panic, CWM (Cold weather mode)
13	F Button Function Menu	FBPRO	F Button Programming
	FB programming	1 2 3 M 2 3 1 M 2 1 3 M 3 1 2 M M 1 2 3	

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 using the **Parking Menu**. The transmitter will beep once, 5min before the Parking countdown reaches 0.

Alarm Clock

The LCD remote control has a built-in alarm clock, which can be set up using the **Alarm Clock Menu**. Once the programmed time is reached, the remote will beep 6 times every minute until a button is pressed.

CWM menu:

When this feature is enabled, press 🔒 for 3sec to enter or exit Cold Weather mode. If disabled,

press 𝐅 → ⚡ button to enter or exit Cold Weather mode.

Valet menu:

When this feature is enabled, press 🔒 to enter Valet mode. When this feature is disabled, press

🔓 + ⚡ buttons simultaneously.

Time start menu:
This feature is used to remote start the car at a pre-programmed time. Once the pre-programmed time is reached, the remote will send a start command to the car module.

Secure Remote feature:
This feature is used to lock the keypad of the transmitter to avoid accidental button press. When the remote is locked and a button is pressed, the LCD will display "PRESF" for 1 second and goes back to the clock.
The transmitter keypad can also be locked as follows:

- Press **F** to go to Menu
- Within 3 seconds, press 🔓

Press **F** for about 1sec, to unlock the transmitter keypad.

LCD ON menu:
If there is no activity within the programmed time, LCD will turn off. This feature maximizes the lifetime of the battery.

Clock Menu:
The Clock menu is used to set the current time on your remote control.

Side button Menu:
The side button can be programmed as on of the following buttons:
- Panic button;
- Stop button;
- Temperature request button;
- Aux 2 output button;
- or CWM.

F Button Function Menu:
The order of LEVELS and MENU can be re-arranged using the F Button Function Menu.

Button Operation:

Button	LCD	Sounder
Lock button	Lock icon + LOCK	1 beep
Unlock button	Unlock icon + ULOCK	2 beeps
Trunk button	TRUNK text for 1s	1 beep
Start button	START text for 1s	1 beep
Engine running	Run time + ⚡ icon + Blue backlight for 3s	3 beeps
Engine stop	Red backlight on for 3s	2 beeps
Unlock+Start button	Valet icon if pressed more than 3s	1 beep
Lock+Unlock button		1 beep
Trunk+Lock button (2nd car operation)	Lock icon + LOCK	1 beep
Trunk+Unlock button (2nd car operation)	Unlock icon + ULOCK	2 beeps
Trunk+Start button (2nd car operation)	START text for 1s	1 beep
L --01 → Lock button		1 beep
L --01 → Unlock button		1 beep
L --01 → Trunk button	Temperature	
L --01 → Start button (pressed more than 3s)	CWM or MTF text for 1s	1 beep
L --02 → Lock button (2nd car unlock)	LOCK and Lock icon	1 beep

Button	LCD	Sounder
L --02 → Unlock button (2nd car unlock)	ULOCK and Unlock icon	2 beeps
L --02 → Trunk button(2nd car trunk)	TRUNK text for 1s	1 beep
L --02 → Start button(2nd car start)	START text for 1s	1 beep
L --03 → Lock button (Channel 1)		1 beep
L --03 → Unlock button (Channel 2)		1 beep
L --03 → Trunk button (Channel 3)		1 beep
L --03 → Start button (Channel 4)		1 beep

Remote-Starting Your Vehicle

If your vehicle has an **automatic transmission**, simply press the **START/STOP** button to remote start or stop your vehicle. Skip the next steps on to "Remote-starting".

Warning: If you vehicle has an automatic transmission and the parking lights flash 15 times after pressing the **START/STOP** button, the parking brake is connected to ground. It is **imperative** that you see your installer and have him disconnect the wire.

Setting Your Vehicle Into Ready Mode

If your vehicle has a **manual transmission** you must read the following indications. 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.

Please note that Ready Mode can be enabled by the remote or the handbrake, depending on the option that was selected by your installer. Therefore, you must follow the appropriate procedure between the two described below in order to set your vehicle into Ready Mode.

Once the system is set to Ready Mode, the vehicle can be remote started and stopped at any time. The system will exit Ready Mode if a door, the hood or the trunk 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:

If Ready Mode is enabled by remote	If Ready Mode is enabled by handbrake
1. Ensure that all the doors, hood and trunk are closed. Make sure that the gear selector is in the neutral position.	
2. With the engine already running, apply the parking brake **once** and release the brake pedal. **Make sure to release the brake pedal.**	2. With the engine already running, apply the parking brake **twice** and release the brake pedal. **Make sure to release the brake pedal. The parking lights will flash 3 times quickly and remain lit. Skip to step 4.**
3. Within 20 sec. of engaging the parking brake, press and hold **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 continue running.	

5.	Exit the vehicle and close all doors, hood and trunk.

6.	Press for approx. 1 second 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.

Remote starting

Press the ⚡ button for approx. 1 second. The parking lights will come **ON** to inform you that the remote 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. If your vehicle is equipped with an automatic transmission, there will be 3 start attempts before the system gives up.

Driving Off

With the vehicle running under remote control, press the 🔓 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.

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 🔓 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 🔒 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 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.

To leave the vehicle in Idle Mode if your vehicle has an <u>automatic transmission</u>:

1. With the engine running, press the 🔒 or 🔓 button (to unlock the doors) or the ⚡ button on the remote control until the parking lights come on.

2. Remove the key and exit the vehicle. The engine will go on running.

3. Lock the doors if needed.

The engine will go on running until the user re-enters the vehicle or until the expiration of the

Engine Run Time

If your vehicle has a **manual transmission**, Idle Mode can be activated through the same routine as that used for Ready Mode; at the last step, the ▪ 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 ⬚, ⬚ or ⚡ 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 ▪ 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

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 i n t o 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.
— The Ⓥ icon will appear on your LCD remote if you press **LOCK** or **UNLOCK**..

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 out of valet mode. The L.E.D. will go out.
— The Ⓥ icon will disappear from your LCD remote if you press **LOCK** or **UNLOCK**.

Note: With the Ignition valet activated, the remote starter and the alarm function 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 ⬚ and ⚡ buttons simultaneously for 3 second.
- **The parking lights will flash 3 times.**

The LED will remain on solid.
— The Ⓥ icon will appear on your LCD remote.

Getting out of valet mode

- Hold the ⬚ and ⚡ buttons simultaneously for 3 second.
- **The parking lights will flash 2 times.**

The LED will turn off.
— The $\boxed{V}$ icon will disappear from your LCD remote.

> **Note**: With the remote valet activated, the remote starter and the alarm function will be disabled.

Panic Mode

In an emergency situation, you can activate panic mode by pressing and holding the **LOCK** or **UNLOCK** button for 3 seconds. If the vehicle is under a remote start, the engine will shutdown automatically before setting off the horn. You can stop the horn by pressing 🔒 (this will lock your doors) or by pressing 🔓 (this will unlock your doors).

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

a) Remote valet (pressing 🔒 and ⚡ for 3 seconds)
b) Ignition valet (turning the key inside the ignition switch from off to on 5 times in a row)
c) Turn the key in ON position, then press the valet switch (if included).

Panic mode will automatically shut down after 25 sec.

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

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). Cold weather mode automatically ends after 24 hours.

To enter Cold Weather Mode:

Press and release the $\boxed{F}$ button and you will hear a beep, L-01 will appear on the display, then press and hold the ⚡ button for 3 seconds until the parking lights flash three times.

The remote control will beep once and the 🔽24H icon will appear on the display.

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 and release the $\boxed{F}$ button and you will hear a beep. L-01 will appear on the display. Then press the ⚡ button for 3 seconds (the parking lights will flash once).

When the system exits cold weather mode, the remote control will beep once and the 🔽24H icon will disappear.

To verify whether the system is in cold weather mode:

Press the brake pedal: If the vehicle is in cold weather mode, the parking lights will stay on while the pedal is pressed.

How to access cold weather mode

Function	Button pressed	Icon	Sound	Instructions /description
To enter cold weather mode	$\boxed{F}$ + ⚡	🔽24H	Beep	Press $\boxed{F}$ and the press and
To exit cold weather mode	$\boxed{F}$ + ⚡	None	Beep	hold ⚡ for 3 seconds.

Extended Run Time

While the vehicle is running under a remote start, **pressing and holding the ⚡ button for more than 3 seconds** will reset the run time counter to zero and restart the run time cycle from the beginning. There will be one beep ⎯a pause⎯ three more beeps; the parking lights will flash three times and the horn (if configured) will honk once. **The extended run time procedure can only be carried out once per remote start.**

To stop the vehicle, at any moment, simply press the ⚡ button.

Example: If your remote car starter is programmed for a run time of 3 minutes and your vehicle has been running for 2 minutes already, pressing the ⚡ button will reset the counter to zero and allow the engine to run for another cycle (in this case, 3 minutes).

Advanced Features: Installation-programmable Options

The remote starter was designed with flexibility and OEM integration in mind. With its program-mable 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 starter.

OEM Alarm

The factory alarm can be armed by pressing 🔒 button (active arming only). If a door or hood is open or if the key is turned to the **IGNITION ON (RUN)** position, the horn will honk.

Remote Door Locks

If your remote starter was installed with the remote door locks option, you will have the convenience of remote keyless entry. See section *Arming the Starter Kill,* on page 8, 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 🔓 button on the transmitter; upon a second press of the 🔓 button, all the other doors will unlock.

Ignition-Controlled Door Locks

This is an added security feature. If your remote 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 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 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 👜 button for 3 seconds on the remote transmitter. The OEM Alarm will remain disarmed until the 🔓 button is pressed.

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 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 Mode

If this feature is enabled, the user must press the ⚡ 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.

If swap start mode is selected, to remote-start your vehicle, press the 🄵 button and then the 🔓

button. The **AUX 2** output can be activated by pressing the ⚡ button.

How to access Safe Start Mode

Function	By pressing	Icon	Sound	Instructions / description
Start on safe start mode	⚡ x 2	⌛ + ⚡	Melody	Press ⚡ twice within 3 seconds. Press for 1 sec-melody-then press 1 sec.
Stop on safe start mode	⚡	None	Melody	

## Installer-programmable Valet Modes

Valet Mode Using the Valet Switch (*if installed*)

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.

To put the system i n t o   valet mode:
1. Turn the ignition key to the **IGNITION ON (RUN)** position.
2. Within 3 sec., press the valet button.
3. The parking lights will flash three times to indicate that the vehicle is now in valet mode. Turn the ignition key to OFF position. The L.E.D. will come **ON** solid.
4. Press **LOCK** or **UNLOCK** and the 🆅 icon will appear on your LCD remote.

To take the system o u t   o f   valet mode:
1. Turn the ignition key to the **IGNITION ON (RUN)** position.
2. Within 3 sec., press and release the valet button (the L.E.D. will come **OUT**).
3. The parking lights will flash twice to indicate that the vehicle is now out of valet mode.
The L.E.D. will go out.
— Press **LOCK** or **UNLOCK** and the 🆅 icon will disappear from your LCD remote.

> **Note**: Once valet mode using valet switch is activated, the remote starter and the alarm function 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 but the OEM alarm functions will still be enabled.

To take the system i n t o home valet mode:

- Press the 🔒 or 🔓 button.

- Within 3 seconds, press the 🔒 and ⚡ 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:

1- Turn **ON** then **OFF**; then
2- Flash twice, pause; then
3- Flash twice again.

How to Access Home Valet™ Mode

Function	By pressing	Icon	Sound	Instructions / description
To enter home valet™ mode	**Step 1 :** 🔒 or 🔓 **step 2 :** 🔒 + ⚡ simultaneously within 5 sec.	V	1 beep	Press 🔒 or 🔓 Within 5 seconds, press 🔒 + ⚡ the transmitter will display V and there will be 1 beep.
To exit home valet ™ mode	None	None	None	Insert key in ignition switch and turn to the on position. The icon will disappear when 🔒 or 🔓 button is pressed

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.

If your vehicle has an automatic transmission, proceed as follows to set the system in Turbo Mode:

1. With the engine already running, press the 🔒 button on the transmitter until the parking lights come **ON**.
2. Remove the ignition key from the ignition switch. **The engine will go on running.**
3. Exit the vehicle and close the door.
4. **Press the 🔒 button to lock the doors; the engine will shut down after 60 seconds of Turbo Mode.**

If your vehicle has a manual transmission, follow all steps of the Ready Mode routine, to activate Turbo Mode:

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 🔒, 🔓 or ⚡ 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.

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6. Press and hold either:

a. 🔒 to lock the doors and shut down the engine after 60 sec.;

b. 🔓 to unlock the doors and shut down the engine after 60 sec.;

c. ⚡ to shut down the engine immediately, without affecting the doors (this will by-pass Turbo Mode).

d. 🔑 TO SET THE VEHICLE INTO IDLE MODE

Engine Run Time

If you have a gas engine, your remote 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 starter can be programmed to run the engine for 8, 20, or 30 minutes (20 minutes default).

How to Access to Runtime Status (Indication purpose only)

Function	By pressing	Icon	Gasoline	Diesel
Engine runtime	⚡	⚡	3 minutes	8 minutes
	⚡	⚡	15 minutes	20 minutes
	⚡	⚡	25 minutes	30 minutes

Temperature Request (If ACC-Temp-100 installed)

The user can request the temperature in the vehicle if a Temperature Sensor Module (ACC-Temp-100) is installed:

o Press the **F** button for 1 second and release; you will hear a beep. L-01 will appear on the screen.

o Immediately press the 🔑 button and hold it until the temperature is displayed on the LCD screen.

Note: to change the temperature from Celsius to Fahrenheit, press **F** + 🔑 + ⚡ simultaneously.

Horn Chirp Timing

The pulse duration can be configured by your installer (from 5 ms to 200 ms).

Flashing LED

The user may decide to turn on or off LED flashing at any moment. To do so, simultaneously press and hold the 🔒 and 🔓 buttons on the transmitter. There will be an initial beep. Keep holding the buttons pressed until you hear another beep. At that point release the buttons. The parking lights will flash once if the LED is turned on or three times if the LED is turned off.

There are three programmable options regarding the flashing LED:

i. The LED flashes once the starter kill is activated (passive or active arming) and will turn itself off once the user turns the key to the **IGNITION ON** position.

ii. The LED is totally disabled and will not flash –it will turn on solid, however, when in valet mode.

iii. The LED will flash once the starter kill is activated but requires pressing the 🔓 button to turn itself off. Failure to press the 🔓 button will make the LED flash even if the key is in the **IGNITION ON** position.

iv.   Starter kill ON / Alarm OFF : the LED will flash quickly twice until the OEM alarm is activated. Once the OEM alarm is activated, it will flash at a slower rate.

Multi-car Operation

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

Note: Your remote control must be configured for second car operation by the installer.

Press ⬚ + ⬚ simultaneously: .... **LOCK**

Press ⬚ + ⬚ simultaneously: .... **UNLOCK**

Press ⬚ + ⚡ simultaneously: ....**START**

Press ⬚ + ⚡ simultaneously:.. **STOP**

Press ⬚ ➢ ⬚ ➢ ⬚: .... **TRUNK**

or

Press ⬚ ➢ ⬚ ➢ ⬚:.. **LOCK**

Press ⬚ ➢ ⬚ ➢ ⬚:.. **UNLOCK**

Press ⬚ ➢ ⬚ ➢ ⚡:.. **START**

Press ⬚ ➢ ⬚ ➢ ⚡:.. **STOP**

Press ⬚ ➢ ⬚ ➢ ⬚:.. **TRUNK**

Basic Operations

Function	Button press	Icon	Sound
Lock	🔑 + 🔒	🔓	1 beep
Unlock	🔑 + 🔓	🔓	2 beeps
Start	🔑 + ⚡	⧗ + ⚡	Melody
Stop	🔑 + ⚡	None	Melody
Trunk	F ➤ F ➤ 🔑	◣	1 Beep

Start/Stop While in Safe Start Mode

Function	Button press	Icon	Sound	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 1 sec and a melody will be heard again.
Stop on safe start mode	🔑 + ⚡	None	Melody	

Missing a Start or a Stop Confirmation

If you have not received a Start or the Stop confirmation after pressing the ⚡ button, simply press the 🔒 button. Pressing the 🔒 button will refresh the display and will confirm if the vehicle was started or stopped.

No Start Confirmation Was Received:

If after remote starting the vehicle no confirmation was received, simply press the 🔒 button, this will refresh the display. If the vehicle was started successfully, the ⚡ icon will appear as well as the run time countdown. Pressing the 🔒 button will also lock all doors (the lock icon will appear). If the doors were already locked prior to pressing the 🔒 button, there will be no change in the status of the doors —i.e. the doors will remain locked.

On models where starter kills were installed, pressing the 🔒 button will also activate the starter kill.

No Stop Confirmation Was Received:

If after remote stopping the vehicle no confirmation was received —i.e. the display did not return to its basic state— simply press the 🔒 button, this will refresh the display. If the engine was stopped, the ⚡ icon will disappear and the time will be displayed.

Pressing the 🔒 button will also lock all doors (the lock icon will appear). If the doors were already locked prior to pressing the 🔒 button, there will be no change in the status of the doors —i.e. the doors will remain locked.

On models where starter kills were installed, pressing the 🔒 button will also activate the starter kill.

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*** $\mathbf{F}$ button *1X)***

$\mathbf{F}$	➢	🔒:	.... aux 2
$\mathbf{F}$	➢	⚡	.... cold weather

Multi-Car Operation (*press the* $\mathbf{F}$ button *2X)*

$\mathbf{F}$	➢	$\mathbf{F}$	➢	🔒:	.... 2nd car lock
$\mathbf{F}$	➢	$\mathbf{F}$	➢	🔓:	.... 2nd car unlock
$\mathbf{F}$	➢	$\mathbf{F}$	➢	⚡:	.... 2nd car start/stop
$\mathbf{F}$	➢	$\mathbf{F}$	➢	🗝:	.... 2nd car trunk

Customized Features (*press the* $\mathbf{F}$ button *3X)*
(*May not be compatible with some vehicles*)
Your installer can add customized features such as turning on the radio, opening sliding doors, etc.

$\mathbf{F}$	➢ $\mathbf{F}$ ➢	$\mathbf{F}$ ➢	🔒:	customized feature 1
$\mathbf{F}$	➢ $\mathbf{F}$ ➢	$\mathbf{F}$ ➢	🔓:	customized feature 2
$\mathbf{F}$	➢ $\mathbf{F}$ ➢	$\mathbf{F}$ ➢	🗝:	customized feature 3
$\mathbf{F}$	➢ $\mathbf{F}$ ➢	$\mathbf{F}$ ➢	⚡:	customized feature 4

Accessing the Multi-Level Features and Other Transmitter Functions

- To access a Level 1 feature, press and release the $\mathbf{F}$ button and you will hear a "beep"; L-01 will be displayed. This display means that you are now in Level 1. Simply press the corresponding button to access the desired feature.

- To access a Level 2 feature, press and release the $\mathbf{F}$ button and you will hear a "beep''; L-02 will be displayed. This display means that you are now in Level 2. Simply press the corresponding button to access the desired feature.

- To access a Level 3 feature, press and release the $\mathbf{F}$ button and you will hear a "beep"; L-03 will be displayed. This display means that you are now in Level 3. Simply press the corresponding button to access the desired feature.

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

Option 1:		
Level 1 (requires pressing the $\mathbf{F}$ button 1X)	→	Multi car operation
Level 2 (requires pressing the $\mathbf{F}$ button 2X)	→	Basic features
Level 3 (requires pressing the $\mathbf{F}$ button 3X)	→	Customized features
Option 2 (on by default)**:**		
Level 1 (requires pressing the $\mathbf{F}$ button 1X)	→	Basic features
Level 2 (requires pressing the $\mathbf{F}$ button 2X)	→	Multi car operation
Level 3 (requires pressing the $\mathbf{F}$ button 3X)	→	Customized features

	Option 3:	
Level 1 (requires pressing the **F** button 1X)	→	Customized features
Level 2 (requires pressing the **F** button 2X)	→	Multi car operation
Level 3 (requires pressing the **F** button 3X)	→	Basic features
	Option 4:	
Level 1 (requires pressing the **F** button 1X)	→	Basic features
Level 2 (requires pressing the **F** button 2X)	→	Customized features
Level 3 (requires pressing the **F** button 3X)	→	Multi car operation

Example: If the multi-level features were set 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 **F** button three (3) times followed by the [trunk] button.
- To access cold weather mode, the user needs to press on the **F** button three (3) times followed by the [lightning] button.

Troubleshooting 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.

Intrusion Codes through Chirps

If there has been an intrusion in the vehicle while it was locked and armed, the OEM alarm will provide in intrusion code matching the type of intrusion that took place. Disarm the alarm (**UNLOCK**) to identify the intrusion.

Diagnostics – Chirps Table

Chirps	Description
1	• Power OFF, power ON
3	• Hood
4	• Door
6	• Ignition

Diagnostics – Parking Light Flash Table

Flashes	Description	
1	• Doors locked, starter kill armed. • Run time has expired. • **TRUNK** button pressed.	• Start signal received by the module. • Cold weather mode cancelled.
2	• Doors unlocked, starter kill disarmed. • Remote start attempt cancelled by remote. • Exiting ignition valet. • Exiting remote valet.	• Power-up reset. • Board set from manual to automatic; power ON. • Power ON to OFF (**automatic transmission**).
2 slow flashes then 8 quick flashes	• Reset from Manual to Automatic	
3	• Entering cold weather mode. • Extended run time. • Entering or exiting Ready Mode	• Entering ignition valet. • Entering remote valet. • Disabling LED
4	• +12 V detected on the brake input wire either while cranking or during run time. • Entering multi-speed tach programming. • Board set from automatic to manual; power ON. • Power ON to OFF (**manual transmission**).	
5 Fast	• Tach signal programmed.	
6	• A remote start was attempted while a tach-before-crank signal was detected before cranking.	
8	• Unit reset	
10	• A ground (-) signal was detected on the hood pin input wire.	
When pressing START/STOP 15 quick flashes…	• The parking brake is connected to ground (**automatic transmission**).	
1 – pause – 2	• There was a remote start attempt while the vehicle was in valet mode. • Failed start: vehicle's low battery voltage.	
ON SOLID for 3 seconds….	…followed by 1 flash	Exiting cold weather mode
	…followed by 3 flashes	Entering cold weather mode
ON continuously	• **Idle mode:** Idle mode is engaged • **Run time:** The vehicle has been remote started and is in run time.	
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 are now in the programming centre.	
Continuous flashes 25 seconds	• Panic mode is activated.	
Continuous flashes 60 seconds	• OEM alarm triggered (Honk)	

LIMITED LIFETIME WARRANTY

REMOTE STARTERS:
As the manufacturer, 4366859 Canada Inc. ("Autostart") warrants to the original consumer purchaser only (**nontransferable**) that the remote starter module (control box) shall be free from defects in materials and workmanship **for as long as the original consumer purchaser continuously owns the vehicle in which the remote starter was originally installed**, as specified below:
1) For the first two years after the date of manufacture, as specified by the serial number on the module, Autostart will replace the remote starter module free of charge with a new remote starter module.
2) For the third year and any consecutive year after the date of manufacture, as specified by the serial number on the module, Autostart will provide to the original consumer purchaser a new remote starter module, for a repair charge of $25.00 USD.

In all cases, the consumer must return the remote starter module to the point of purchase, and must provide a copy of the proof of purchase to said retailer. A remote starter module will be returned to the retailer for the consumer to claim within a 4 (four)-week period. For case (2), a certified cheque or money order in the amount of $25.00 USD must accompany the remote starter module, or the retailer may refuse the return.

ACCESSORIES:
Autostart warrants to the original consumer purchaser only (**nontransferable**) that it will replace any Autostart accessory part for a one-year period from date of purchase. Accessories will only be replaced if proven defective in material or workmanship, and if, when the accessory is returned to the point of purchase, the retailer is provided with a copy of the proof of purchase. The accessory will be sent to the retailer for the consumer to claim within a 4 (four)-week period.

THE WARRANTY IS VOID IF:
1) The product has been damaged, altered in any way or tampered with, without the explicit written consent of an Autostart technician. For remote starter modules, this includes the opening or removal of the plastic covering of the module, or the removal or alteration of the barcode label on the plastic covering of the module.
2) The product is damaged due to accident, fire, flood, shipping and handling, misuse, neglect, or other conditions beyond the control of Autostart.
3) The product has been installed or repaired by anyone other than a certified technician.
4) The product has been improperly installed or used.

THE WARRANTY DOES NOT COVER:
1) Batteries.
2) Scratched or worn transmitter cases.
3) Installation and/or removal charges for all remote starter modules and accessories.
4) Shipping and handling charges incurred for product exchange or replacement.
5) Any material damages other than to the product itself.
6) Harnessing, L.E.D. lights, switches, inverters, relays, etc.

THIS LIMITED LIFETIME WARRANTY SHALL CONSTITUTE THE SOLE LIABILITY OF AUTOSTART FOR OUR PRODUCTS, AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THERE ARE NO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO PERSON, FIRM OR CORPORATION IS AUTHORIZED TO ASSUME FOR AUTOSTART ANY OTHER LIABILITY WITH RESPECT TO THE SALE OR USE OF OUR PRODUCTS. AUTOSTART'S LIABILITY, WHETHER BASED ON CONTRACT, TORT, WARRANTY, STRICT LIABILITY, OR ANY OTHER THEORY, SHALL NOT EXCEED THE PRICE OF THE INDIVIDUAL UNIT WHOSE DEFECT FOR DAMAGE IS THE BASIS OF THE CLAIM. UNDER NO CIRCUMSTANCE WILL AUTOSTART, ITS DISTRIBUTORS OR THEIR AGENTS BEAR ANY LIABILITY WHATSOEVER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

The parties hereto elect that any dispute regarding the present document be submitted to the appropriate Court located in the Province of Quebec, District of Montreal. The parties hereto agree that this document is governed by and interpreted in accordance with the law of Quebec. If the purchaser is located in a province of Canada other than Quebec, all matters dealing with the warranty of quality will be governed by and interpreted in accordance with the law of Ontario. If the purchaser is located outside Canada, all matters dealing with the warranty of quality will be governed by and interpreted in accordance with the United Nations Convention on Contracts for the International Sale of Goods (the "Vienna Convention").