

AS-6450vTW-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.

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 alarm/starter combo 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 advanced function, this product will satisfy any of 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, 2-way remote control. It can operate two independent vehicles equipped with the same remote starter (see **Multi-car operation** section on page 15). The functions of the transmitter are as follows:

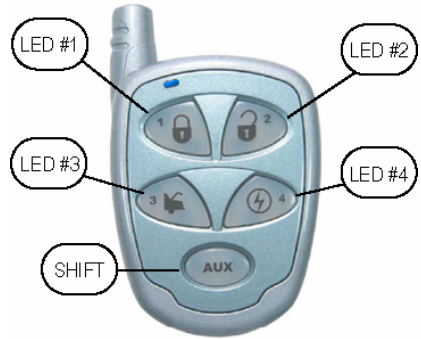
 **LOCK:** Locks the Doors and arms the Security System and the STARTER KILL.

 **UNLOCK:** Unlocks the Doors and disarms the Security System and the STARTER KILL. Activates the AUX 2 output if Priority Door Access is configured.

 **TRUNK:** Opens the TRUNK or activates the AUX 3 output.

 **START/STOP:** Remote start/stop. Cold Weather Mode by pressing the SHIFT button and then pressing and holding START/STOP button for 3 seconds.

AUX **SHIFT:** 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.



Picture serves as example only.

- 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.**

Feature Confirmation Chart

Feature	LED #1	LED #2	LED #3	LED #4	Beep(s)
Lock	3 flashes				1
Unlock		3 flashes			2
Trunk			3 flashes		1
Start				3 flashes	1
Start out of ready mode				3 flashes	4
Running				3 flashes	3
Stop				3 flashes	2
Entering Cold Weather Mode				3 flashes	1...+ ... 2
Exiting Cold Weather Mode				3 flashes	1... + ...1
Home Valet	3 flashes			3 flashes	2
Valet Mode	3 flashes			3 flashes	1
Exit Valet Mode		3 flashes		3 flashes	1

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 engine IS running under a remote start**, refer to Table 2 (if the doors are locked) or refer to Table 3 (if the doors are unlocked).

The status request feature has 2 stages:

- The first stage of flashes denotes if the vehicle's doors are locked or unlocked.
- The second stage of flashes (when applicable) denotes the vehicle status.

Status Request When the Engine is NOT Running and Ready Mode is Engaged

Status	Stage	LED #1	LED #2	LED #3	LED #4	Beep(s)
Lock		3 flashes				1
Unlock			3 flashes			2
Cold Weather	1 st stage if locked	3 flashes				2
	1 st stage if unlocked		3 flashes			2
	2 nd stage				1 second	
Home Valet	1 st stage if locked	3 flashes				2
	1 st stage if unlocked		3 flashes			2
	2 nd stage	1 second			1 second	
Valet Mode	1 st stage if locked	3 flashes				1
	1 st stage if unlocked		3 flashes			1
	2 nd stage	1 second			1 second	
Out of Ready Mode	1 st stage if locked	3 flashes				4
	1 st stage if unlocked		3 flashes			4
	2 nd stage				4 flashes	

Table 1

Status Request When the Engine is Running

When the vehicle's doors are locked:

Run time	Stage	LED #1	LED #2	LED #3	LED #4	Beep(s)
If there is more than 3/4 of run time cycle	1 st stage	3 flashes				3
	2 nd stage	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	1 st stage	3 flashes				3
	2 nd stage	ON for 1 sec	ON for 1 sec	ON for 1 sec		
If there is more than 1/4 of run time cycle	1 st stage	3 flashes				3
	2 nd stage	ON for 1 sec	ON for 1 sec			
If there is less than 1/4 of run time cycle	1 st stage	3 flashes				3
	2 nd stage	ON for 1 sec				

Table 2

When the vehicle's doors are unlocked:

Run time	Stage	LED #1	LED #2	LED #3	LED #4	Beep(s)
If there is more than 3/4 of run time cycle	1 st stage		3 flashes			3
	2 nd stage	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	1 st stage		3 flashes			3
	2 nd stage	ON for 1 sec	ON for 1 sec	ON for 1 sec		
If there is more than 1/4 of run time cycle	1 st stage		3 flashes			3
	2 nd stage	ON for 1 sec	ON for 1 sec			
If there is less than 1/4 of run time cycle	1 st stage		3 flashes			3
	2 nd stage	ON for 1 sec				

Table 3

Alarm Status

Status	Stage	LED #1	LED #2	LED #3	LED #4	Beep(s)
Door	If door is opened	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	continuous
Hood	If hood is opened	Flash	Flash	flash	flash	continuous
Ignition	If ignition is turned ON	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	continuous
Shock	If shock activated	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	continuous
Trunk	If trunk is opened	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	1. flash 2. flash	continuous
Remote Finder	Valet switch on for 3 sec					continuous

Table 4

How Run Time Cycles Work

Run time cycle	LED #1 will turn itself off when ...	LED #2 will turn itself off...	LED #3 will turn itself off ...	LED #4 will turn itself off...
3-minute run time cycle	... the cycle has ended.	... 2 minutes into the cycle.	... 1 minute into the cycle.	-
8-minute run time cycle	... the cycle has ended.	... 7 minutes into the cycle.	... 5 minutes into the cycle.	... 3 minutes into the cycle.
15-minute run time cycle	... the cycle has ended.	...11 minutes into the cycle.	... 7 minutes into the cycle.	... 4 minutes into the cycle.
20-minute run time cycle	... the cycle has ended.	... 15 minutes into the cycle.	... 10 minutes into the cycle.	... 5 minutes into the cycle.
25-minute run time cycle	... the cycle has ended.	... 19 minutes into the cycle.	... 13 minutes into the cycle.	... 7 minutes into the cycle.
30-minute run time cycle	... the cycle has ended.	... 23 minutes into the cycle.	... 16 minutes into the cycle.	... 9 minutes into the cycle.

Table 5

Example: If the vehicle was programmed with a run time cycle of 15 minutes and the engine was running (under a remote start) for 5 minutes (meaning there are 10 minutes left in the run time cycle), LEDs #1 #2 and #3 would light up. (LED #3 will turn itself off when there are 8 minutes or less left in the run time cycle.)

Multi-Level Features (*default state*)

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 nd car lock
SHIFT	➤	SHIFT	➤	UNLOCK:	2 nd car unlock

SHIFT ➤ SHIFT ➤ START/STOP: 2nd car start/stop
 SHIFT ➤ SHIFT ➤ TRUNK: 2nd 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

Setting Transmitter Features (press the SHIFT button 4X)

By default, the multi-level features are programmed as follows:

- Level 1 (Basic Features)
- Level 2 (Multi car operation)
- Level 3 (Customized Features)
- To access a feature that is programmed as level 1, press the SHIFT button once followed by the desired function.
- To access a feature that is programmed as level 2, press the SHIFT button twice followed by the desired function.
- To access a feature that is programmed as level 3, press the SHIFT button three times followed by the desired function.

Your installer can customize these multi-level features to best suit you. Your options are:

Option 1:

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

Option 2:

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

Option 3:

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

Option 4:

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

Example: If the multi-level features were set to option 3, the setup would be as follows:

- Level 1 → Customized feature
- Level 2 → Multi car operation
- Level 3 → Basic features

The “**Basic features**” are now programmed as level 3 and therefore:

- 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.

Note: When using the companion remote, Shift button must be pressed twice quickly the first time. For instance, to access **customized feature 1**, press SHIFT twice quickly, SHIFT and SHIFT again followed by LOCK.

Remote Starting Your Vehicle

If your vehicle has an **automatic transmission**, simply press the START/STOP button to remote start your vehicle. Please see **"To remote start your vehicle"** below.

Warning: If you vehicle has an automatic transmission and the parking lights flash 15 times after pressing the START/STOP button, please see your installer as programming will have to be modified.

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.	

To remote start your vehicle

Press the START/STOP button for approximately 1 second. The parking lights will come ON and the transmitter will beep once to inform you that the remote starter has received your signal. Approximately 5 seconds later, the engine will start. The transmitter will beep 3 times and 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.

Vehicle Presets

Heater & Heated Seats

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) 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 energize the radio and / or windshield wipers and / or headlight circuits 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 start, press the **UNLOCK** button to disarm the security system (this will also unlock the doors). 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.)
2. Press the brake pedal to disengage the remote starter unit.

You are now ready to drive off.

Using the Remote Starter

Arming and Disarming the Security System

To **disarm** the alarm and Starter Kill (if installed) and unlock the doors (if installed):

1. Press and hold the **UNLOCK** button for approx. 1 sec.
You will hear **two chirps** if the Siren or Horn is so configured.
2. The **UNLOCK** button will light up on the LED display of the remote control. The parking lights will flash twice and the LED will go out to confirm that the doors have been unlocked (the starter kill (if installed) and the alarm will disarm as well). Turning the ignition **ON** and **OFF** will reset the alarm memory.

In Passive Mode, the system will rearm automatically 30 seconds after the key is taken out of the ignition (or was not turned to the **ON** position and the last door was closed). If the vehicle was remote started, the brake pedal must be pressed in order to allow the unit to detect that the user has taken over control of the vehicle. This will stop the sequence for passive rearm.

To **arm** the alarm and Starter Kill (if installed) and lock the doors (if installed):

1. Press and hold the lock button for approx. 1 sec.
You will hear **one chirp** if the Siren or Horn is so configured.
2. The **LOCK** button will light up on the LED display of the remote control. The parking lights will flash once and the LED will flash slowly to confirm that the doors have been locked (the Starter Kill (if installed) and the alarm will arm as well).

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 control of the vehicle (i.e. no Key in the Ignition Switch) while the engine is running.

To leave the vehicle in Idle Mode if your vehicle has an automatic transmission:

1. With the engine running, make sure to release the brake pedal and press the **UNLOCK** button (to unlock the doors, if installed) or the **START/STOP** button on the remote control until the parking lights come on or you hear a series of clicks.
2. Remove the key and exit the vehicle. The engine will continue running.
3. Lock the doors if needed.

The engine will continue 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; for the last step, the **TRUNK** button is pressed instead of the other buttons.

1. Ensure that all the doors, hood and trunk are closed and that the shifter is in the neutral position.
2. With the engine running, apply the parking brake and release the brake pedal.
Make sure to release the brake pedal.
3. Within 20 sec. of engaging the parking brake, 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 continue running.
5. Exit the vehicle and close all doors, hood and trunk.
6. Press the **TRUNK** button until you hear a chirp (the doors will lock if remote door lock is installed, and the system will arm).

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

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

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). The vehicle will remain in Ready Mode.

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

1. With the engine running, make sure to release the brake pedal and press the **LOCK** button on the transmitter until the parking lights come **ON** or you hear a series of clicks.
2. Remove the key from the ignition switch. **The engine will continue running.**
3. Exit the vehicle and close all doors, hood and trunk.
4. **Press the TRUNK button (this will 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, hood and trunk are closed and that the shifter is in the neutral position.
2. With the engine running, apply the parking brake and release the brake pedal.
Make sure to release the brake pedal.
3. Within 20 sec. of engaging the parking brake, 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 continue running.
5. Exit the vehicle and close all doors, hood and trunk.
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 bypass Turbo Mode).
 - d. **TRUNK to set the vehicle into idle mode.**

Valet Modes

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

Valet Mode Using the Valet Switch (if installed)

To put the system *into* valet mode:

1. Turn the key to the **IGNITION ON (RUN)** position.
2. Within 3 sec., press the valet button for 1 second.

The parking lights will flash three times to indicate that the vehicle is now in valet mode.

3. Turn the key to the **OFF** position.

The LED on the antenna will come ON solid.

To take the system *out of* valet mode:

1. Turn the key to the **IGNITION ON (RUN)** position.
2. Within 3 sec., press the valet button for 1 second (the LED will turn **OFF** or start to flash).

The parking lights will flash twice to indicate that the vehicle is now out of valet mode.

The LED will go out or start to flash.

Note: Once valet mode is activated, the remote starter and alarm functions will be disabled.

Ignition Valet

This feature will allow you to 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 key into the ignition switch. Turn the ignition **ON** then **OFF** 5 times in 10 seconds.
(**Note:** **ON** is the position before crank.)
The parking lights will flash three times to indicate that the system is now in valet mode.
The LED will turn **ON** solid.

To take the system *out of* valet mode:

- Insert the key into the ignition switch. Turn the ignition **ON** then **OFF** 5 times in 10 seconds.
(**Note:** **ON** is the position before crank.)
The parking lights will flash twice to indicate that the system is now out of valet mode.
The LED will go out or start to flash.

Note: Once the ignition valet is activated, the remote starter and alarm functions will be disabled.

Remote Valet Mode

This feature will allow you to 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 LED will turn 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 LED will turn off.

Note: Once the remote valet is activated, the remote starter and alarm functions will be disabled.

Home Valet Mode

If configured at installation, this feature will 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 alarm functions will still be active.

To take the system into home valet mode:

- Press the **LOCK** or **UNLOCK** button.
- Within 3 seconds, press the **LOCK** and **START/STOP** buttons simultaneously until the parking lights go **ON**, then **OFF**.

To take the system out of 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:

- i. Turn **ON** then **OFF**; then
- ii. Flash **twice**, pause; then
- iii. Flash **twice** again.

Panic Mode

In an emergency situation, you can activate panic mode by pressing and holding the **SHIFT** button for 3 seconds. This will sound the siren and the parking lights will start to flash. (If the vehicle is under a remote start, the engine will shut down immediately.)

You can stop the horn siren by pressing the **LOCK** or **UNLOCK** button.

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

- a) Remote valet
- b) Ignition valet
- c) Valet mode using the valet switch

Panic Mode will automatically shut down after 30 seconds.

Quick Lockout (Secure Panic)

For fast protection in emergency situations, the system will **LOCK** all doors when **the brake pedal is pressed and the unit is in Panic Mode**. For example, if a person is pursued or feels threatened; the system can be disarmed by pressing the **UNLOCK** button. While approaching the vehicle, the **SHIFT** button must be pressed and held for 3 seconds (to engage Panic Mode). With Panic Mode engaged, if the person enters the car and presses the brake pedal, Quick Lockout will lock the doors.

Temporary Chirp Delete

To temporarily disable the chirp confirmations of the siren upon arming and disarming (e.g. in a quiet neighbourhood):

1. Press the **TRUNK** button.
2. Within 3 sec., press the **LOCK** or **UNLOCK** button to arm or disarm without any chirps.

Cold Weather Mode

If your vehicle has a manual transmission, Ready mode should be set before entering Cold Weather mode. When cold weather mode is active, the engine starts every 2 hours and runs for 3

minutes (or 8 or 20 minutes with diesel engines). Cold weather mode automatically ends after 24 hours (or 12 starts).

To enter Cold Weather Mode:

- Press the **SHIFT** button and then the **START/STOP** for 3 seconds.

There will be two (2) beeps and the parking lights will flash three (3) times.

Note: You can enter Cold Weather mode the same way on a manual vehicle, as long as the unit is in Ready mode first.

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

- Open the hood.
- Start the engine by remote.
- Start the engine with the key.
- Press the **SHIFT** button and then the **START/STOP** button for three seconds.

There will be one (1) beep and the parking lights will flash once.

Advanced Features: Installation-programmable Options

The remote 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 starter.

The installation-programmable options are as follows:

Passive or Active Arming	Starter Kill / Anti-grind feature
Remote Door Locks	Siren/Horn Chirp Timing
Priority Door Access	Safe Start
Ignition-controlled Door Locks	Home Valet
Ignition Relock	Turbo Mode
Relock	Engine Run Time
Secure Lock	Extended run time
Remote Trunk Release	Multi-car Operation

Note: Some of these options should only be used on certain vehicles; please consult with your installer.

Passive or Active Arming

The alarm system and the starter kill can be configured either to passive mode (to arm automatically) or active mode (requires the user's intervention to arm). By default, your remote starter is configured to **passive mode**. In passive mode, the starter kill will automatically arm **30 seconds** after the last door is closed or the ignition is turned off. The remote starter will not arm if a door, hood or trunk is left open, or if you re-open a door, hood or trunk within the 30-second delay. Please note that when pressing the **TRUNK** button, the trunk will open and the security system will disarm. If your vehicle is in passive mode, the security system will rearm after a 30-second delay, after the last door, trunk or hood is closed.

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

Remote Door Locks

If your remote starter was installed with the remote door locks option, you will have the convenience of remote keyless entry.

Priority Door Access

If the remote door locks option is installed on your vehicle, this safety feature allows you to 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.

Note: Most vehicles require the use of an additional relay for this option; please consult with your installer.

Ignition-Controlled Door Locks and Relock

This is an added security feature. If your remote starter was installed with the ignition-controlled door locks option, the doors will automatically lock as soon as the key is turned to the **IGNITION ON (RUN)** position while the brakes are pressed. The remote car starter will also lock any door that was unlocked and opened (then closed) the next time the break pedal is pressed. When the key is turned to the **OFF** position, the doors will automatically unlock.

Relock

If you unlock the doors with the remote transmitter, but do not open any door, hood, trunk or turn ignition **ON** within 30 seconds, the system will automatically relock and arm.

Note: When the system is in **active arming** mode and the **relock** mode is enabled, the doors will relock but the system will not rearm.

Secure Lock

(Only for certain vehicles.) 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 **TRUNK** button for 3 seconds. There will be one beep and LED #3 will flash 3 times.

Note: When pressing the **TRUNK** button, the **TRUNK** will open and the security system will disarm. If your vehicle is in passive mode, the system will rearm after a 30-sec. delay once the trunk is closed. If your vehicle is in ready mode, it will be cancelled as soon as the trunk opens.

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 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

If this feature is enabled, the user must press the **START/STOP** button twice 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 **LOCK** and **UNLOCK** buttons simultaneously. The **AUX 2** output can be activated by pressing the **START/STOP** button.

Home Valet

If this feature is enabled, the user has the option of setting the vehicle to a no-remote-start mode. The alarm functions will still be active.

Turbo Mode

When left in turbo mode, the remote starter will keep the engine running for 60 seconds before shutting it down. This is to allow a turbocharger to idle down after the user leaves the vehicle.

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).

Extended Run Time

While the vehicle is running under a remote start, **pressing and holding the START/STOP 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. **The extended run time procedure can only be carried out once per remote start.**

To stop the vehicle, at any moment, simply press the **START/STOP** button.

Example: If your remote car starter is programmed for a run time of 4 minutes and your vehicle has been running for 3 minutes already, pressing the **START/STOP** button will reset the counter to zero and allow the engine to run for another cycle (in this case, 4 minutes).

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:

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: In order to access the 2nd car operations with the companion remote, the **SHIFT** button must be pressed twice quickly and then one more time followed by **LOCK**, **UNLOCK**, **TRUNK** or **START/STOP** (depending on what you want to do).

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.

Shock Sense, Warn-away Sense

(Both enabled by default.) Your System will react to a full shock by triggering the alarm; it can also respond to a lighter shock (30 % of the strength of a full shock) by giving a **warning** (without triggering an alarm condition).

Note: During a remote start, the shock sensor is disabled. However, all the other alarm-triggering zones (such as the doors, the trunk or the hood) will still trigger the alarm.

Siren or Horn Chirps

(ON by default.) The siren will chirp to confirm basic operations on the system:

- By default, upon **locking** the doors the siren will give **one chirp** if all doors, hood or trunk are closed.
- If a **zone is open** as the system is **armed**, the siren will give **three chirps**.
- When the doors are being **unlocked**, the siren will give **two chirps**.
- If an **intrusion was detected**, as the doors are being **unlocked** the siren will give **four chirps**.

The system can alternatively be set to:

Warning Mode: no chirp during lock/unlock...

- unless a zone is open when locking, in which case there will be 3 chirps upon locking,
- or if the alarm was triggered, in which case there will be 4 chirps when unlocking);

Open Zone Notification Mode: 3 warning chirps if a door is left open 10 sec. after arming.

No Chirp: the siren will not chirp under any circumstances.

Disarmed Notification

(Off by default.) This feature will notify the user when the vehicle was left disarmed: after the engine is shut down and all doors are closed, the siren will chirp once after a 10-sec. delay to warn the user that the vehicle was left unprotected. The notification can be avoided by pressing the **LOCK** or **UNLOCK** button on the transmitter before the 10-sec. delay.

The user will be notified after the system is disarmed using the transmitter.

Car Finder

(Enabled by default.) The Car Finder option will help you locate your vehicle by emitting a pulse signal through the horn or the siren. To hear the signal, press **LOCK** and **UNLOCK** simultaneously. This will cause one chirp and one flash of the lights every time you repeat the sequence.

Flashing LED

There are three programmable options regarding the flashing LED:

- i. **Active arming:** the LED flashes normally.
- ii. **Passive arming:** the LED flashes at an accelerated pace during the countdown before the arming of the starter kill and the security system. Once the starter kill and the security system are armed, the LED will flash at a slower pace.
- iii. **Valet Mode:** the LED will remain on but will not flash.

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 vehicle itself.
- The shape of the vehicle can affect range as well (vans in general have less 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.
- The operating range will be somewhat lower on vehicles equipped with an aftermarket or factory alarm.

Intrusion Codes through the LED Light

If there has been an intrusion in the vehicle while it was locked and armed, the LED will provide an intrusion code matching the type of the intrusion that took place. Disarm the alarm (**UNLOCK**) to identify the intrusion. The LED intrusion codes are flashed in continuous loops:

2 x = Doors intrusion

5 x = Panic

3 x = Shock Sense

6 x = Ignition

4 x = Hood

7 x = Trunk

The alarm diagnostic by LED projects an LED flash sequence immediately after disarming and will remain in that state of alarm memory until the ignition is turned ON.

Diagnostics – Chirps Table

Chirps	Description
1	<ul style="list-style-type: none">Doors locked, alarm and starter kill armed.LOCK confirmation.Entering mode 1 in the programming options.
2	<ul style="list-style-type: none">Doors unlocked, alarm and starter kill disarmed.Transmitter programmed.Entering mode 2 in the programming options.
3	<ul style="list-style-type: none">LOCK and arm while a zone is left unprotected.Entering mode 3 in the programming options.
4	<ul style="list-style-type: none">UNLOCK and disarm: an intrusion was detected (in warning chirps mode or full chirps mode).Entering tach programming mode.Entering mode 4 in the programming options.
5	<ul style="list-style-type: none">Siren or horn chirp timing adjustment
Constant up to 60 sec	<ul style="list-style-type: none">In siren or horn mode: alarm condition generated by an intrusion, by panic mode or when the system is powered up. The siren will sound for 60 sec.

Diagnostics – Parking Light Flash Table

Flashes	Description	
1	<ul style="list-style-type: none"> Doors locked, alarm and starter kill armed Run time has expired TRUNK button pressed 	<ul style="list-style-type: none"> Start signal received by the module Cold weather mode cancelled
2	<ul style="list-style-type: none"> Remote start attempt cancelled by remote Doors unlocked, starter kill disarmed Exiting ignition valet Power ON to OFF (automatic transmission) 	<ul style="list-style-type: none"> Exiting remote valet Power-up reset Board set from manual to automatic; power ON
2 slow flashes then 8 quick flashes	<ul style="list-style-type: none"> Reset from manual to automatic 	
3	<ul style="list-style-type: none"> Entering ignition valet Entering or exiting ready mode 	<ul style="list-style-type: none"> Entering remote valet Entering extended run time
4	<ul style="list-style-type: none"> +12 V detected on the brake input wire either while cranking or during run time Entering multi-speed tach programming 	<ul style="list-style-type: none"> Board set from automatic to manual; power ON Power ON to OFF (manual transmission)
5 Fast	<ul style="list-style-type: none"> Tach signal programmed New transmitter programmed 	
6	<ul style="list-style-type: none"> A remote start was attempted while a tach-before-crank signal was detected before cranking 	
8	<ul style="list-style-type: none"> Unit reset 	
10	<ul style="list-style-type: none"> A ground (-) signal was detected on the hood pin input wire wire when attempting to remote start or during run time 	
When pressing START/STOP 15 quick flashes	<ul style="list-style-type: none"> The parking brake is connected to ground (automatic transmission) 	
1 – pause – 2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Exiting cold weather mode
	...followed by 3 flashes	<ul style="list-style-type: none"> Entering cold weather mode
ON continuously	<ul style="list-style-type: none"> Idle mode: Idle mode is engaged Run time: The vehicle has been remote started and is in run time. 	
ON 2 seconds	<ul style="list-style-type: none"> The hood has been opened and a ground (-) signal has been detected on the hood pin input wire 	
ON 4 seconds	<ul style="list-style-type: none"> Locking or unlocking a door (with door pulses configured to 4 sec.) 	
ON 20 seconds	<ul style="list-style-type: none"> The hood pin has been flashed and you now have access to the programming options 	
Constant flashes up to 60 sec.	<ul style="list-style-type: none"> In siren or horn mode: Alarm condition generated by an intrusion, by panic mode or when the system is powered up 	

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").