

# AstroStart

REMOTE  
CONTROL  
ENGINE  
STARTER

USER MANUAL

## Model 803

For all automatic  
transmission gas- and  
diesel-powered  
vehicles



(FRANÇAIS AU VERSO)



CONSULT SAFETY PRECAUTION SECTION  
BEFORE USING THIS PRODUCT.

NEVER INSTALL THIS PRODUCT ON A  
MANUAL TRANSMISSION VEHICLE.

SOME FEATURES MAY REQUIRE  
ADDITIONAL MATERIAL (NOT INCLUDED).

PATENT NOS  
CAN 1.130.426  
USA 4.345.554 - 5.614.883  
- 5.617.819 - 5.673.017

AND OTHER PATENTS PENDING

Manufactured in Canada by:  
**Astroflex**

## GOVERNMENT REGULATIONS



This device complies with the requirements of Industry Canada (IC) - Management of Radiofrequencies, as specified in document CNR-210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.



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 interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

### **Warning:**

Changes or modifications not expressly approved by <manufacturer> could void the user's authority to operate the equipment.

  
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## SAFETY PRECAUTIONS

Before using this product, carefully read the following safety precautions.

- Immediately report any malfunction to the AstroStart dealer that performed installation.
- Under no circumstance can this product or its use be modified.
- Always turn off main switch when vehicle is parked in an enclosed, unventilated area or is in for servicing.
- Always turn off main switch when not using your Remote Starter for extended periods of time.
- Keep remote controls away from children.
- Have your engine tuned regularly to ensure optimum performance of your Remote Starter.
- Make sure your windshield wipers are turned off before leaving vehicle.
- Regularly check safety features that stop engine (see "SAFETY CHECKS" on page 8.)
- Make sure you comply with all local regulations which may prohibit leaving your engine running when vehicle is unattended in a public place.
- Always advise service personnel that your vehicle is equipped with a Remote Starter.
- We strongly recommend that you have your Remote Starter checked annually. Contact the dealer in your area.

## BEFORE USING YOUR REMOTE STARTER

Before leaving your vehicle, set the various controls in order to use your Remote Starter.

- Set heating/air-conditioning controls to desired position. (When the remote starter starts your engine, it will also turn on your climate control system.)
- Turn your windshield wipers to the "OFF" position.
- Make sure gearshift is in "P".

## THE REMOTE CONTROL

Your remote control works off a small, long-life 12-volt alkaline battery (GP-23A).

The range of your remote control can be affected by a weak battery, interference from nearby metal structures, hydro poles, or crowded parking lots.

With its electronic CODE LEARNING feature, up to three additional remote controls can be programmed for your vehicle.

We strongly recommend that you keep a replacement battery in your glove compartment.

See your dealer for replacement batteries or additional remote controls.

## USING YOUR REMOTE CONTROL

To ensure that commands are transmitted properly, press desired button for 2 seconds.

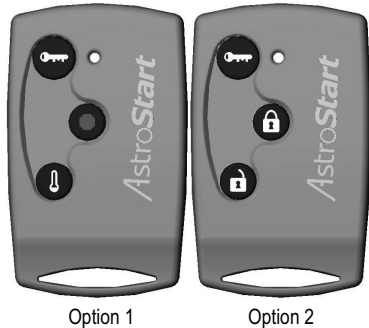
Indicator light will flash while transmitting the command (4 blinks).

Your system can be configured (during installation) in such a way that the remote control will only access the starting function of your vehicle or it can access both the starting and door locking functions of the vehicle.

You can replace the buttons (rubber keypad) of your remote control by an alternate keypad (ask your dealer).

The keypad shows pictograms to help you remember the commands; use the keypad that corresponds to your system options.

Remote included in kit may differ from the ones illustrated.



Option 1

Option 2

## TABLE OF COMMANDS

COMMANDS SELECTED OPTION ⇒	BUTTONS		CONFIRMATION	
	OPTION 1	OPTION 2	LIGHTS	HORN
STOP			1	
START / CONTINUOUS MODE			1 ①	1 ①
ACTIVATE / DEACTIVATE SENTINEL MODE			4 / 2 / 3 ②	
TRUNK			3	
UNLOCK			2	
LOCK			1	1 ③
①	THIS CONFIRMATION IS SENT ONLY WHEN ENGINE IS ALREADY RUNNING UNDER REMOTE CONTROL.		②	4 = ACTIVATION 2 = DEACTIVATION 3 = SYSTEM NOT READY
③	PROGRAMMABLE DURING INSTALLATION – 2 <sup>ND</sup> LOCK			

**Note :** Make sure that the remote control is covered with the appropriate keypad, i.e. pictograms that correspond with the command options programmed to your system (See "Using your remote control").

## CONFIRMATION


In all cases, your Remote Starter will confirm that a command has been received properly by flashing parking lights. In this manual, confirmation signals are written in an abbreviated form; for example:

(lights: 2) Means that parking lights will flash twice.

The horn provides certain confirmations when connected to system (requires optional wiring and material). Confirmations are explained in more detail under each command.

## START COMMANDS

### START

To start the engine, press  button (lights: 1).

The system automatically adjusts ignition duration for your type of vehicle; parking lights flash once then stay on all the time engine is running.

If more than one command is emitted, each successive start command resets runtime to the beginning, parking lights flash once to confirm command has been received and horn sounds once if wired to system.

### IF ENGINE FAILS TO START

If your system cannot start the engine at first attempt, it will wait for a few seconds and then try again (it could try again twice depending on reason for failure to start).

After three attempts, it will shut down automatically and wait for a new command.

### WHEN ENTERING YOUR VEHICLE...

- Do not apply brakes; this will stop engine immediately.
- Insert ignition key and turn it to "ON" position.



**DO NOT TURN IGNITION KEY TO "START" POSITION.**

- Drive as usual.

### ENGINE RUNTIME

Your engine will stop automatically after a preset time of 2 min. , 4 min. , 8 min.  or 18 min.  depending on settings during installation. Runtime doubles for diesel engine vehicles.

Parking lights will remain on for the whole running time period.

### TRIGGER INPUT

Your remote starter is equipped with a negative trigger (pulse) input.

This input can be connected to another remote control device or to an AstroStart RTS-2 timer output (optional). Part No. 310-903-502.

If this input is connected, consult this device's manual or ask your technician which command controls the start/stop function.

The Start/Stop commands received on this input are ignored while the engine is running on a remote start.

All Start/Stop functions controlled by this input behave in the same way as functions controlled by remote.



## CONTINUOUS MODE

The "Continuous Mode" function allows to remove the key from the ignition while leaving the engine running. This convenient feature allows you to leave the vehicle for short periods of time while the climate controls remain on.

To access the "Continuous Mode", carry out the "Start" command while the engine is idling. See "START" command on page 4.

Parking lights, engine and preset accessories will remain on for the duration of the programmed runtime.

Remove key, exit vehicle and lock doors. All safety devices will remain active.

If you return to your vehicle before runtime has elapsed, just turn the key to the "ON" position and depress brake pedal.

## WHAT STOPS THE ENGINE

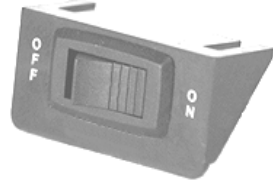
For your safety, engine will not start or will stop if:

- Ignition switch is in the "ON" position (prevents starting).
- Remote control sends a stop message.
- Hood is open.
- Brakes are applied.
- Engine is over-revving (programmable).
- Main switch is **OFF**.

## MAIN SWITCH

The main switch is usually mounted under the dashboard. It is a toggle **ON/OFF** switch that is used to cancel start functions.

It does not disable other commands which remain active.



## STOP

When engine is kept running by Remote Starter, you can stop it by pressing,

Option 1 •  button (lights: 1).

Option 2 •  and  simultaneously (lights: 1).

Engine and parking lights will shut down.


## LOW TEMPERATURE MODE



In Low Temperature (Sentinel) mode, system starts your engine automatically when temperature falls below a preset level (programmable during installation), see table.

Threshold temperature is set for ✓			
-5 °C ( 23 °F)		-20 °C ( -7 °F)	
-15 °C ( 5 °F)		-30 °C ( -22 °F)	

Engine will run for programmed runtime, after which system will wait 2½ hours and then start engine again if temperature is still below preset level.

To activate/deactivate Low Temperature mode,

Option 1 • press the  button.

Option 2 • press  and  buttons simultaneously.

**When mode is activated:**

Parking lights will flash 4 times, then, if temperature is below preset level, engine will start.

If temperature is above preset level, system waits until it goes below preset level before starting. If system cannot execute command (for example, hood is open), confirmation will be different (lights: 3).

**When mode is deactivated:**

Parking lights will flash twice to confirm that mode is deactivated. Applying brakes also deactivates Low Temperature mode.


**LOCK/UNLOCK COMMANDS****(Option 2 only)**

If your vehicle is equipped with electric door locks, several functions can be operated by remote control. These features are optional and may require purchasing additional equipment. Consult your dealer for advice.

Following systems can be controlled:


- Door locks.
- Trunk or hatchback release.
- Interior lights.

**LOCK **

Press the  button, doors are locked and parking light flashes once to confirm command has been received.

Parking light confirmation is sent as many times as command is repeated so you are sure that system has received the command. Horn sounds once if option "Confirmation on 2nd lock" was set (during installation).

**UNLOCK **

Press the  button, doors are unlocked and parking light flashes twice to confirm command has been received.

The "Unlock" function can be programmed and connected in such a way that the first Unlock command only unlocks the driver's door, while a following Unlock command unlocks the other door(s).



**DOME LIGHT SUPERVISION**

Dome light will turn on for 30 seconds every time "Unlock" command is sent.

This 30-second period is cancelled when "Lock" or "Trunk release" command is sent, brakes are applied or key is inserted in ignition and turned to "ON" position.

This function is optional and requires an additional connection and equipment during installation.

**TRUNK RELEASE  **

Press the  and  buttons simultaneously (lights: 3). Trunk is released and parking lights flash three times to confirm command has been received.

The trunk cannot be released if ignition key is in "ON" position. In this case, parking lights flash once to confirm that command has been received but trunk could not be released.

If you are not sure you have received confirmation, repeat command. System will repeat confirmation as often as you wish.

If your vehicle is equipped with an OEM security system, the command will neutralize it. So remember to rearm it after trunk is closed ("Lock" command).



## AUTOMATIC LOCK/UNLOCK

Programmable as **Active** or **Inactive** during installation.

This function locks the doors when ignition key is in "**ON**" position, engine is running and brakes are applied. Doors are unlocked when key is turned from "**ON**" to "**OFF**" or when Continuous Mode is activated.

If "Unlock" function is set to unlock only driver's door on the first command, the "Automatic Unlock" function will unlock driver's door only. If dome light is connected to system, it is activated when an automatic unlock occurs.

This function is : Active  Inactive .

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## ANTITHEFT (CIRCUIT DISABLER)

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(Option 2 only )

Programmable as **Active**  or **Inactive**  during installation.

Your Remote Starter is equipped with an Antitheft system. This system consists of an output that controls a relay that cuts all circuits required to operate your vehicle (optional connection).

### "PASSIVE ARMING" TYPE ANTITHEFT

This type of Antitheft system arms automatically when ignition key is turned from "**ON**" to "**OFF**" and remains "**OFF**" for one minute. It can also be armed manually by sending a "Lock" command (unless ignition key is in "**ON**" position).

### DISARMING

Antitheft system is disarmed for one minute when you send "Unlock" command.

If the ignition key is not turned to "**ON**" position within one minute, system automatically rearms, thus preventing any intruder from starting your vehicle, even with the key in the ignition switch.

### "ACTIVE" TYPE ANTITHEFT

This type of Antitheft system arms by sending the "Lock" command (unless ignition key is in "**ON**" position) and disarms by sending the "Unlock" command.

## SAFETY CHECKS

In order to maintain a high safety standard, proceed with the following checks every month.

### HOOD SWITCH

- Remote start your vehicle.
- Open hood.

Engine should stop as soon as hood is opened.

If engine does not stop immediately, turn main switch to **OFF** position **and leave it off until situation is rectified**. Contact your service center.

### GEARSHIFT CHECK

If key must be in ignition for gearshift to be moved out of **P**, your vehicle is safe as long as keys are kept away from children.

If, on the other hand, gearshift can be put in gear without key being in ignition, proceed with this simple check.

- Put gearshift in gear.
- Remain in the vehicle and be ready to apply brakes.
- Start vehicle with remote starter.
- Repeat these steps with gearshift in every position other than **Park** and **Neutral**.

If starter reacts within 90 seconds (which would not be secure), turn main switch to OFF position **and leave it off until situation is rectified**. Contact your service center.

- With gearshift in **P**, start vehicle with remote starter.
- Remain in vehicle and **be ready to apply brakes**.
- **Without applying brakes**, move gearshift out of **P**.

If, without applying brakes, engine does not stop immediately (which would not be secure), turn main switch to **OFF** position **and leave it off until situation is rectified**. Contact your service center.

## REPLACING OR BOOSTING VEHICLE BATTERY

If you have to replace or boost your battery for any reason, turn main switch to **OFF** position **and leave it OFF until battery is replaced or fully charged**.

**REVERSING POLARITY WHEN BOOSTING YOUR BATTERY  
COULD PERMANENTLY DAMAGE YOUR REMOTE STARTER.**