

2010-

RX 350/450h

TVIP V9

REMOTE ENGINE STARTER PLUS (RES+)
OWNER'S GUIDE



RES+

Owner's Guide



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SMARTPHONE OPERATION

KEY FOB OPERATION

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All specifications provided in this Owner's Guide are current at the time of printing. We reserve the right to make changes at any time without notice. Any vehicle, hardware, web and/or smartphone application images used in the Owner's Guide are for illustrative purposes only and may differ from the actual product.

REFERENCE

- United States of America

Contains FCC ID: QIPAH3-US

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.

FCC WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- Canada

Contains IC: 7830A-AHS3US

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter 7830A-AHS3US has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device. The antenna type approved for the transmitter 7830A-AHS3US is: a dedicated film antenna with 2dBi of maximum gain and 50 ohms of impedance.

Le présent émetteur radio 7830A-AHS3US a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Le type d'antenne approuvé pour le 7830A-AHS3US émetteur est: une antenne film dédié à 2dBi de gain maximum et de 50 ohms d'impédance.

USAGE PRECAUTIONS (for SMARTPHONE OPERATION)



Warning

NOT following the instructions below could result in serious injury, death, and/or damage to the vehicle.

- NEVER remotely start the engine if you are unaware of the circumstances surrounding the vehicle as it may cause a life threatening situation for those located in the vehicle's vicinity.
- DO NOT remotely start the engine if the vehicle is in an enclosed area (such as an unventilated garage/parking lot) where too much exhaust may accumulate and create a hazardous environment with the potential for Carbon monoxide (CO) poisoning.
- DO NOT remotely start the engine if children or pets are present in or near the vehicle. It can lead to serious injury, or death.
- NEVER use product, or product packaging for purposes other than originally intended. Doing so could result in damage to the unit, fire, or injury/death.
- DO NOT walk while using the CarFinder function of RES+. Always confirm your surroundings first to avoid safety hazards.
- DO NOT remotely start the engine when it is near flammable substances and/or has a car cover on. The exhaust pipe and emissions can create a hazardous environment which can lead to serious injury or death.



Caution

NOT following the instructions below could result in damage to the vehicle, or the product.

- If the Check Engine Light has come on, DO NOT operate RES+ to start the engine until the vehicle has been checked by an authorized dealer technician.
- NEVER attempt to disassemble, alter, or modify the product. An accident, injury, fire, or damage to the product may result.
- ALWAYS shut off mechanical components such as the windshield wipers after parking. If left on, they may be damaged after remotely starting your vehicle.

USAGE PRECAUTIONS (for SMARTPHONE OPERATION)

General Information

- All smartphone(s) authorized by the owner have access to the vehicle's location as part of the CarFinder functionality.
- RES+ should only be used by licensed drivers.
- Laws in some communities may require that the vehicle be within view of anyone using RES+. In some states, use of RES+ may violate state or local laws. Before using RES+, check your state and local laws.
- RES+ is for vehicles with automatic transmissions only. Do not use it with manual transmission vehicles.
- RES+ should be installed or repaired by an authorized dealer technician.
- This product uses a mobile phone communications network to operate the engine start/stop and door lock/unlock functions. Consequently, the time taken to perform the functions and for current information to be refreshed, is influenced by the signal strength at that location and time.
- CarFinder information and vehicle location may vary slightly depending on GPS signal strength, and location.
- RES+ is designed to work at temperatures above -22° F (-30° C). This specification is related to the RES+ operation, but is dependant on the vehicle's operating temperature range which may be different.
- RES+ is designed for remote operation. A key FOB is still necessary to drive the vehicle.
- Contents subject to change without notice.
- All features may not be applicable to all vehicle models.
- Refer to the online Owner's Guide for the most current information
- The FAQ, Troubleshooting Guide, and online Owner's Guide can be found in the RES+ section of <http://www.lexusdrivers.com>.

INTRODUCTION (for SMARTPHONE OPERATION)

Thank you for purchasing this Genuine Lexus Accessory.

RES+ uses a smartphone application to remotely access various vehicle functions and features listed below. The use of this application requires installation of the RES+ accessory in your vehicle and an annual subscription.

FEATURES

- Remote Engine Start
Start your vehicle's engine from your smartphone. If you have preset your Heating/Cooling System to your desired temperature the RES+ will assist you in obtaining a comfortable cabin upon entry. As an added convenience, this feature works with the defroster (when preset) to help clear up the windshield during cold weather.
The RES+ is designed to shut the engine off when it detects any attempt to enter or move the vehicle after a remote engine start.
- Lock/unlock doors
Lock and unlock your vehicle's doors from your smartphone.
- CarFinder
Use the CarFinder feature to find the general location of your vehicle.
- Check the following vehicle information:
 - Exterior temperature at location of vehicle
 - Engine status - ON/OFF
 - Door(s) status - LOCKED/UNLOCKED

CONTRACT INFORMATION

- Account registration for use of this service can be done by any one person, usually the owner or someone authorized by the owner.
- Complete the Registration Process immediately after RES+ has been installed in the vehicle by visiting <http://www.lexusdrivers.com>
- Please refer to the section *RES+ Quick Setup Guide* for web registration instructions.

RES+ Quick Setup Guide

It is necessary to complete the account registration procedure and download the smartphone application software by following the steps in the same order mentioned below.

Web Registration

Do you have a Lexus Drivers Account?	
Yes	No
1 <ol style="list-style-type: none"> 1. Log in to Lexus Drivers. (http://www.lexusdrivers.com) 2. Click RES+ Icon. 3. Click on the register button 	<ol style="list-style-type: none"> 1. Go to the following URL on the Internet and Register a new account. (http://www.lexusdrivers.com) 2. Click RES+ Icon. 3. Click on the register button
RES+ Registration.	
2 <ol style="list-style-type: none"> 1. After you have clicked "REGISTER", you will be prompted to enter additional information and complete the account registration. Enter the following information in accordance with the screen instructions: <ul style="list-style-type: none"> • Account information (account owner)/vehicle information (VIN), RES+ ECU Serial Number. • Payment method (for annual subscription fee). • Add smartphone(s) (max 4 per vehicle) <ul style="list-style-type: none"> - Warning: Each added smartphone can locate your vehicle through CarFinder. 	

Smartphone application download

Refer to <http://www.lexusdrivers.com> to determine if your smartphone and vehicle are compatible.

RES+ application software download

1. Search RES+ and download the application from your smartphone application store.
 - iPhone™ - Apple™ App Store
 - Android™ - Google Play™

Smartphone settings

2. Run the RES+ application on your smartphone.
2. Log in to RES+ with your “username” and “password” provided by the owner.

NOTE: By setting “Remember my username” to “ON”, login information will be remembered for every subsequent login.

[iPhone only]

- Refer to the owner’s manual on the website prior to using the CarFinder function.
- Refer to the iPhone User Guide for details on iPhone operation.

NOTE: For the latest information and smartphone application instructions, please visit the RES+ section online at <http://www.lexusdrivers.com> and refer to the Owner’s Guide.

Complete

OPERATION (for SMARTPHONE OPERATION)

OPERATING CONDITIONS

The engine will NOT remotely start if one of the following conditions is detected.

Door(s) and/or hatch is open.	Brake pedal is being pressed.
Hood is open.	Vehicle's transmission is not in park (P).
Ignition is ON.	

The remotely started engine will shut off if one of the following inputs is detected.

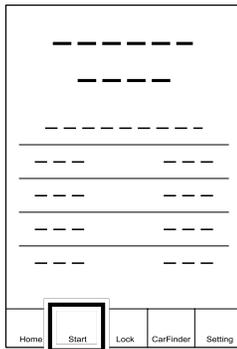
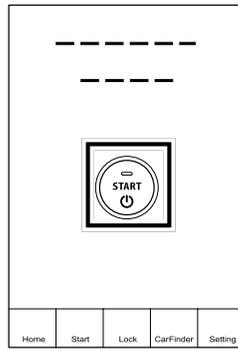
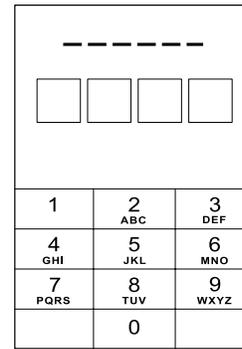
Door(s) and/or hatch is opened.	Brake pedal is pressed.
Hood is opened.	Vehicle's transmission is shifted out of park (P)
Ignition is turned ON.	The security alarm is triggered.*
Door is unlocked by Smart key, manual key, or key FOB.	If the vehicle's engine has been running for 10 minutes after being remotely started.**

* The engine will continue to run if the panic alarm is activated.

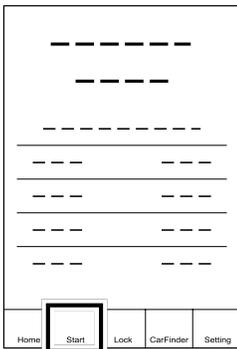
** The vehicle can be restarted remotely for a total of 20 minutes. After 20 minutes of total run-time the Vehicle must be manually restarted to reset the run-time.

OPERATION (for SMARTPHONE OPERATION)**ENGINE START**

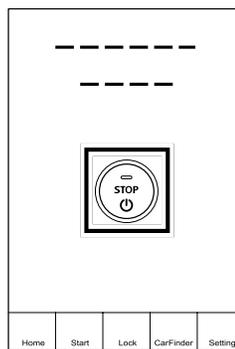
NOTE: When using RES+, data usage fees may apply. Confirm data usage fees before using this service.

1. Tap "Start".**2. Tap "START".****3. Enter your PIN (4 digit).
The engine starts.**

NOTE: Vehicles remotely started with the RES+ can idle for a total of 20 minutes, however automatic engine shutdown occurs after 10 minutes of run-time. You can always restart the vehicle after this initial shutdown. Once the total run-time of 20 minutes is reached the vehicle must be manually started in order to reset the RES+. If the vehicle is started manually within the 20 minute window, the run-time will be reset.

ENGINE STOP**1. Tap "Start".****2. Tap "STOP".**

The engine shuts off.

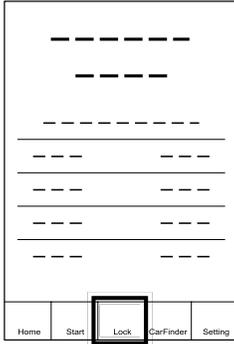
**NOTE**

Refer to the online Owner's Guide for additional details about the Engine Start and Engine Stop operations.

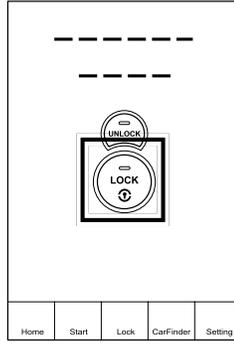
OPERATION (for SMARTPHONE OPERATION)

DOOR LOCK

1. Tap "Lock".



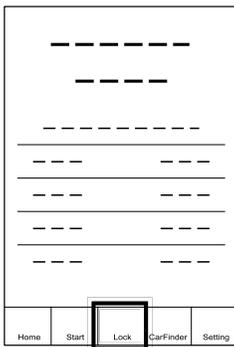
2. Tap "LOCK" to lock the doors.



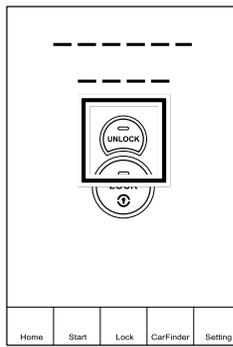
DOOR UNLOCK

NOTE: This function may not be applicable for all models.

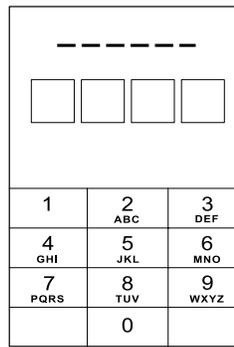
1. Tap "Lock".



2. Tap "UNLOCK".



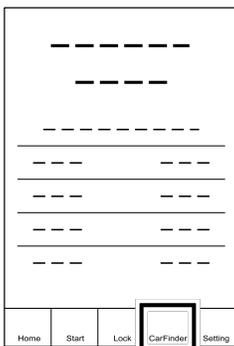
3. Enter your PIN (4 digit).
The doors will unlock.



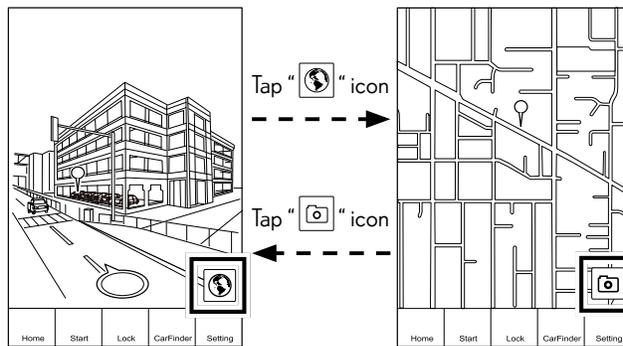
NOTE: The Door Lock and Unlock functions cannot be performed while the engine is running.

CAR FINDER

1. Tap "CarFinder".



2. CarFinder function starts.



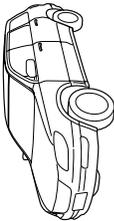
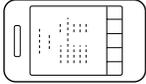
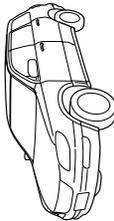
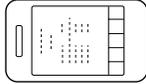
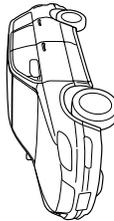
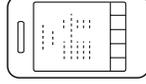
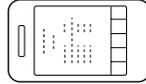
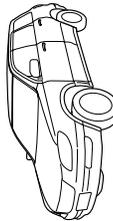
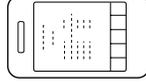
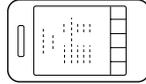
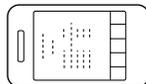
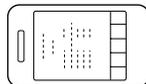
NOTE

Refer to the online Owner's Guide for additional details about the Door Lock / Unlock and CarFinder operations.

OPERATION (for SMARTPHONE OPERATION)

OPERATING PRIORITY OVERVIEW

The following Table provides an overview of the operation priorities. This priority list was designed to provide optimal safety and security.

<p>If Engine is started by push button</p>  	<p>Engine can be shut off by push start button</p> 	<p>Engine can NOT be shut off by key fob</p> 	<p>Engine can NOT be shut off by smartphone</p> 
<p>If Engine is started by Key fob (conventional RES)</p>  	<p>Engine can be shut off by push start button</p> 	<p>Engine can be shut off by key fob</p> 	<p>Engine can NOT be shut off by smartphone</p> 
<p>If Engine is started by smartphone 1 (User A)</p>  	<p>Engine can be shut off by push start button</p> 	<p>Engine can be shut off by key fob</p> 	<p>Engine can be shut off by smartphone 1 (User A)</p> 
<p>If Engine is started by smartphone 2 (User B)</p>  	<p>Engine can be shut off by push start button</p> 	<p>Engine can be shut off by key fob</p> 	<p>Engine can NOT be shut off by smartphone 1 (User A)</p> 
<p>Engine can NOT be shut off by smartphone 2 (User B)</p> 			
<p>Engine can be shut off by smartphone 2 (User B)</p> 			

RES+ INFORMATION (for SMARTPHONE OPERATION)

HEATER / AIR CONDITIONER / DEFROSTER / DEFOGGER SETTINGS

For your comfort and convenience, the vehicle's air conditioning system controls can be preset to operate the heater, air conditioner, and defroster/defogger at engine startup. The two tables below contain the settings recommended for best results. Users should preset these before exiting the vehicle. (Please see your vehicle's owner's manual for available settings.)

VEHICLES WITH AUTOMATIC AIR CONDITIONER

	Auto Button	A/C Button	Temperature Selector	Windshield Airflow Button	Fan Speed Selector
Heat	ON	OFF	User Settings	OFF	OFF
Cool	ON	ON	User Settings	OFF	OFF
Defrost	OFF	ON	Max Setting	ON	HIGH
Defog	OFF	ON	Max Setting	ON	HIGH

NOTE: The RES+ may not activate the rear window defroster/defogger.

VEHICLES WITH MANUAL AIR CONDITIONER

	A/C Button	Temperature Selector	Airflow Selector	Fan Speed Selector
Heat	OFF	WARM	PANEL	HIGH
Cool	ON	COLD	PANEL	HIGH
Defrost	ON	WARM	WINDSHIELD	HIGH
Defog	ON	WARM	WINDSHIELD	HIGH

NOTE: The RES+ may not activate the rear window defroster/defogger.

VEHICLES WITH HEATED AND VENTILATED SEATS

For vehicles equipped with Heated and Ventilated front seats these features can also be left on so that when the vehicle is remotely started these features will provide you with additional comfort upon entering the vehicle.

RES+ RANGE

The RES+ has unlimited range to operate provided there is sufficient cellular reception for both the Smartphone and Vehicle. The physical makeup of the surrounding environment (hills, trees, buildings, etc.) may affect the RES+ performance.

INTRODUCTION (for KEY FOB OPERATION)

The REMOTE ENGINE STARTER allows you to start your engine from outside the vehicle. It utilizes your vehicle's keyless entry remote, so there is no need to carry around an extra remote. The REMOTE ENGINE STARTER is operated the same way for vehicles equipped with or without the Smart Entry / Push Start system; simply push the remote's LOCK button in a quick, two step sequence. In addition, the REMOTE ENGINE STARTER can activate the heater or air conditioner according to your preset temperature controls, providing you with a comfortable cabin upon entry. As an added convenience, the REMOTE ENGINE STARTER can also activate the defroster (when preset) to clear up the windshield during cold weather.

To ensure your safety, and the safety of anyone near the vehicle, the REMOTE ENGINE STARTER is designed to shut the engine off when it detects any attempt to enter or move the vehicle after a remote engine start. Please consult your Lexus dealer for more details.

NOTE: To utilize the REMOTE ENGINE STARTER, your vehicle must have an automatic transmission; it cannot be used for manual transmission models. The transmission range for remote start may be shorter than the remote's basic keyless entry operation. Range can also be affected by the surrounding environment. Laws in some communities require that the vehicle be within view of anyone using the REMOTE ENGINE STARTER. In some states, use of the REMOTE ENGINE STARTER may violate state or local laws. Before using the REMOTE ENGINE STARTER, check your state and local laws.

For any questions or concerns about the REMOTE ENGINE STARTER, please call Lexus Customer Relations at (800) 255-3987.

USAGE PRECAUTIONS (for KEY FOB OPERATION)

**Warning**

NOT following the instructions below could result in serious injury, death, and/or damage to the vehicle.

- NEVER remotely start the engine if you are unaware of the circumstances surrounding the vehicle as it may cause a life threatening situation for those located in the vehicle's vicinity.
 - DO NOT remotely start the engine if the vehicle is in an enclosed area (such as an unventilated garage/parking lot) where too much exhaust may accumulate and create a hazardous environment with the potential for Carbon monoxide (CO) poisoning.
 - DO NOT remotely start the engine if children or pets are present in or near the vehicle. It can lead to serious injury, or death.
 - NEVER use product, or product packaging for purposes other than originally intended. Doing so could result in damage to the unit, fire, or injury/death.
 - DO NOT remotely start the engine when it is near flammable substances and/or has a car cover on. The exhaust pipe and emissions can create a hazardous environment which can lead to serious injury or death.
-

**Caution**

NOT following the instructions below could result in damage to the vehicle, or the product.

- If the Check Engine Light has come on, DO NOT operate the Remote Engine Starter to start the engine until the vehicle has been checked by an authorized dealer technician.
- NEVER attempt to disassemble, alter, or modify the product. An accident, injury, fire, or damage to the product may result.
- ALWAYS shut off mechanical components such as the windshield wipers after parking. If left on, they may be damaged after remotely starting your vehicle.

USAGE PRECAUTIONS (for KEY FOB OPERATION)

General Information

- The Remote Engine Starter should only be used by licensed drivers.
- Laws in some communities may require that the vehicle be within view of anyone using the Remote Engine Starter. In some states, use of Remote Engine Starters may violate state or local laws. Before using the Remote Engine Starter, check your state and local laws.
- Remote Engine Starter is for vehicles with automatic transmissions only. Do not use it with manual transmission vehicles.
- Remote Engine Starter should be installed or repaired by an authorized dealer technician.
- The Remote Engine Starter is designed to work at temperatures above -22° F (-30° C). This specification is related to the Remote Engine Starter operation, but is dependant on the vehicle's operating temperature range which may be different.
- Contents subject to change without notice.
- All features may not be applicable to all vehicle models.

OPERATION (for KEY FOB OPERATION)

OPERATING CONDITIONS

The engine will NOT remotely start if one of the following conditions is detected.

Door(s) and/or hatch is open.	Brake pedal is being pressed.
Hood is open.	Vehicle's transmission is not in park (P).
Ignition is ON.	

The remotely started engine will shut off if one of the following inputs is detected.

Door(s) and/or hatch is opened.	Brake pedal is pressed.
Hood is opened.	Vehicle's transmission is shifted out of park (P)
Ignition is turned ON.	The alarm is triggered.*
Door is unlocked by Smart key, manual key, or key FOB.	If the vehicle's engine has been running for 10 minutes after being remotely started.**

* The engine will continue to run if the panic alarm is activated.

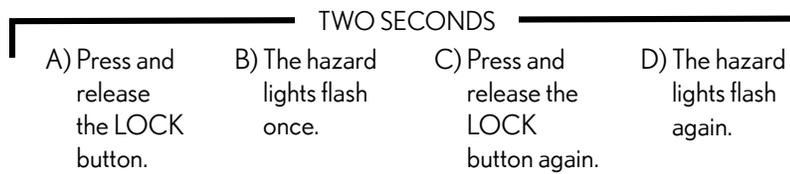
** The vehicle can be restarted remotely for a total of 20 minutes. After 20 minutes of total run-time the Vehicle must be manually restarted to reset the run-time.

OPERATION (for KEY FOB OPERATION)

REMOTE ENGINE START

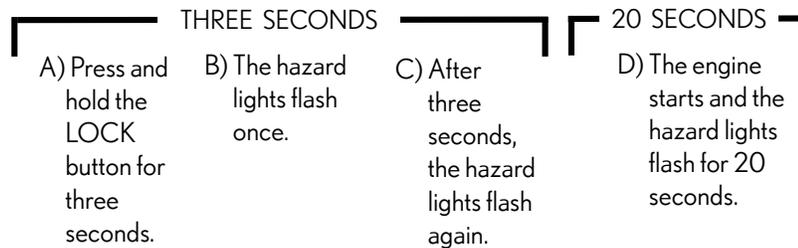
To start a vehicle remotely, press and release the LOCK button twice within two seconds, then press and hold the LOCK button for three seconds.

STEP 1. Press and release the LOCK button on the remote twice within two seconds. The hazard lights will flash each time.



FOLLOWED IMMEDIATELY BY:

STEP 2. Press and hold the LOCK button on the remote for three seconds. The hazard lights flash once when pressed, then again after three seconds. The engine starts, and the hazard lights flash for 20 seconds.



NOTE: Vehicles started with the Remote Engine Starter can idle for a total of 20 minutes, however automatic engine shutdown occurs after 10 minutes of run-time. You can always restart the Vehicle after this initial shutdown. Once the total run-time exceeds 20 minutes the vehicle must be manually started in order to reset the Remote Engine Starter.

NOTE: For vehicles equipped with Piezo, the buzzer will chirp the same number of times that the light flashes.

For any questions or concerns about the Remote Engine Starter, please call Lexus Customer Relations at (800) 255-3987.

OPERATION (for KEY FOB OPERATION)

REMOTE ENGINE STOP

There are two methods by which to shut off the vehicle engine remotely: Either press the UNLOCK button once OR press and hold the LOCK button for two or more seconds.

METHOD 1: Press the UNLOCK button on the remote. The engine stops and the hazard lights flash twice.



A) Press the UNLOCK button.

B) The engine stops.

C) The hazard lights flash twice.

Using Method 1, your vehicle will remain unlocked for 30 seconds. Then it automatically relocks if no doors are opened. If your vehicle will not be in plain view for that time, or you have other security concerns, you may wish to use Method 2 (below), which does not unlock the vehicle.

METHOD 2: Press and hold the LOCK button on the remote for two or more seconds. The engine stops and the hazard lights flash once.



A) Press and hold the LOCK button for two seconds or more.

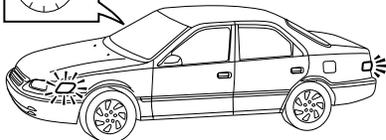
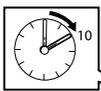
B) The engine stops.

C) The hazard lights flash once.

NOTE: All doors will remain locked after the engine is shut off.

NOTE: For vehicles equipped with Piezo, the buzzer will chirp the same number of times that the light flashes.

AUTOMATIC ENGINE SHUTDOWN



The engine will stop automatically after 10 minutes.

REMOTE ENGINE STARTER INFORMATION

(for KEY FOB OPERATION)

HEATER / AIR CONDITIONER / DEFROSTER / DEFOGGER SETTINGS

For your comfort and convenience, the vehicle's air conditioning system controls can be preset to operate the heater, air conditioner, and defroster/defogger at engine startup. The two tables below contain the settings recommended for best results. Users should preset these before exiting the vehicle. (Please see your vehicle's owner's manual for available settings.)

VEHICLES WITH AUTOMATIC AIR CONDITIONER

	Auto Button	A/C Button	Temperature Selector	Windshield Airflow Button	Fan Speed Selector
Heat	ON	OFF	User Settings	OFF	OFF
Cool	ON	ON	User Settings	OFF	OFF
Defrost	OFF	ON	Max Setting	ON	HIGH
Defog	OFF	ON	Max Setting	ON	HIGH

NOTE: The Remote Engine Starter may not activate the rear window defroster/defogger.

VEHICLES WITH MANUAL AIR CONDITIONER

	A/C Button	Temperature Selector	Airflow Selector	Fan Speed Selector
Heat	OFF	WARM	PANEL	HIGH
Cool	ON	COLD	PANEL	HIGH
Defrost	ON	WARM	WINDSHIELD	HIGH
Defog	ON	WARM	WINDSHIELD	HIGH

NOTE: The Remote Engine Starter may not activate the rear window defroster/defogger.

VEHICLES WITH HEATED AND VENTILATED SEATS

For vehicles equipped with Heated and Ventilated front seats these features can also be turned on so that when the vehicle is remotely started these features will provide you with additional comfort upon entering the vehicle.

REMOTE ENGINE STARTER RANGE

The Remote Engine Starter can be effectively operated up to 80 feet in an open space. The physical makeup of the surrounding environment (hills, trees, buildings, etc.) may affect the Remote Engine Starter's maximum range.