

■ SMART KEY SYSTEM

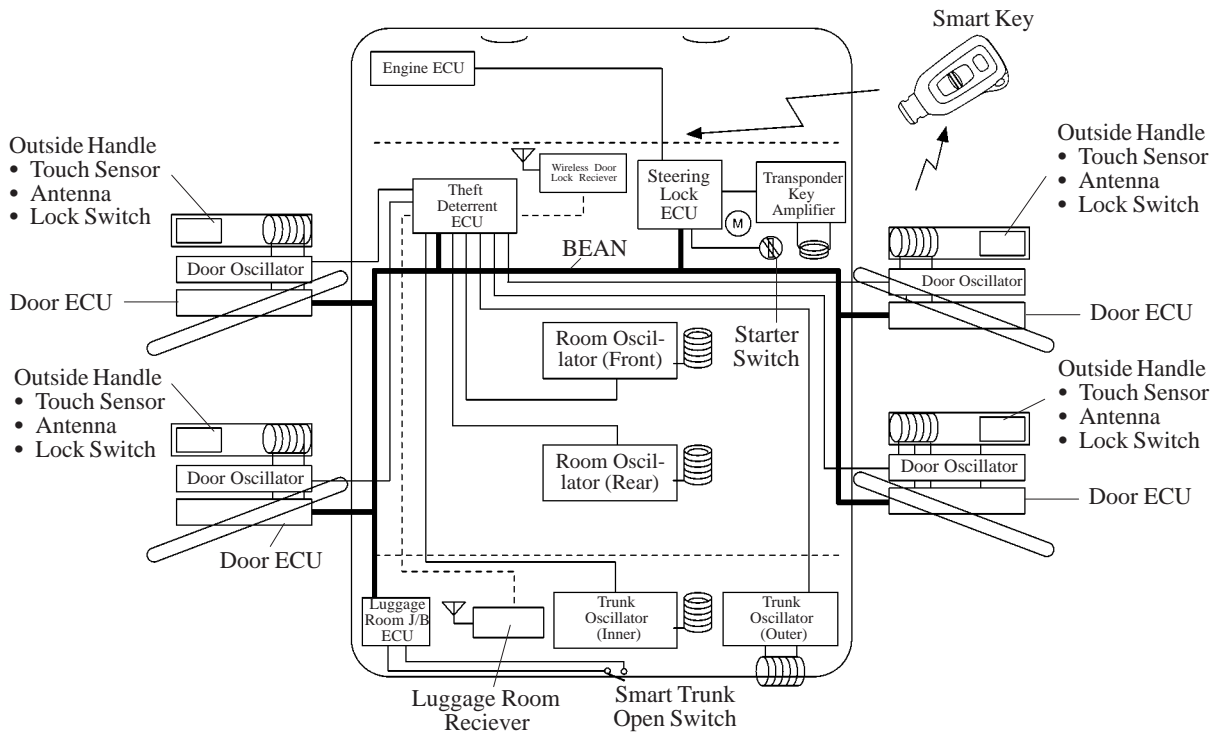
1. General

- The smart key system is optional equipment.
- In addition to the conventional mechanical key function and wireless door lock remote control function, this system provides the key with a bi-directional communication function.
Accordingly, by enabling the Theft deterrent ECU to recognize the presence of the key within the detection area, the system can lock or unlock the doors, start the engine, or open the luggage compartment door without the use of the key, as long as the user has the smart key. The wireless door lock remote control function of the smart key is the same as in the conventional wireless door lock remote control system. For details, refer to the Wireless Door Lock Remote Control System.
- However, smart function is only available for the master key. This smart function do not function by using the sub key.

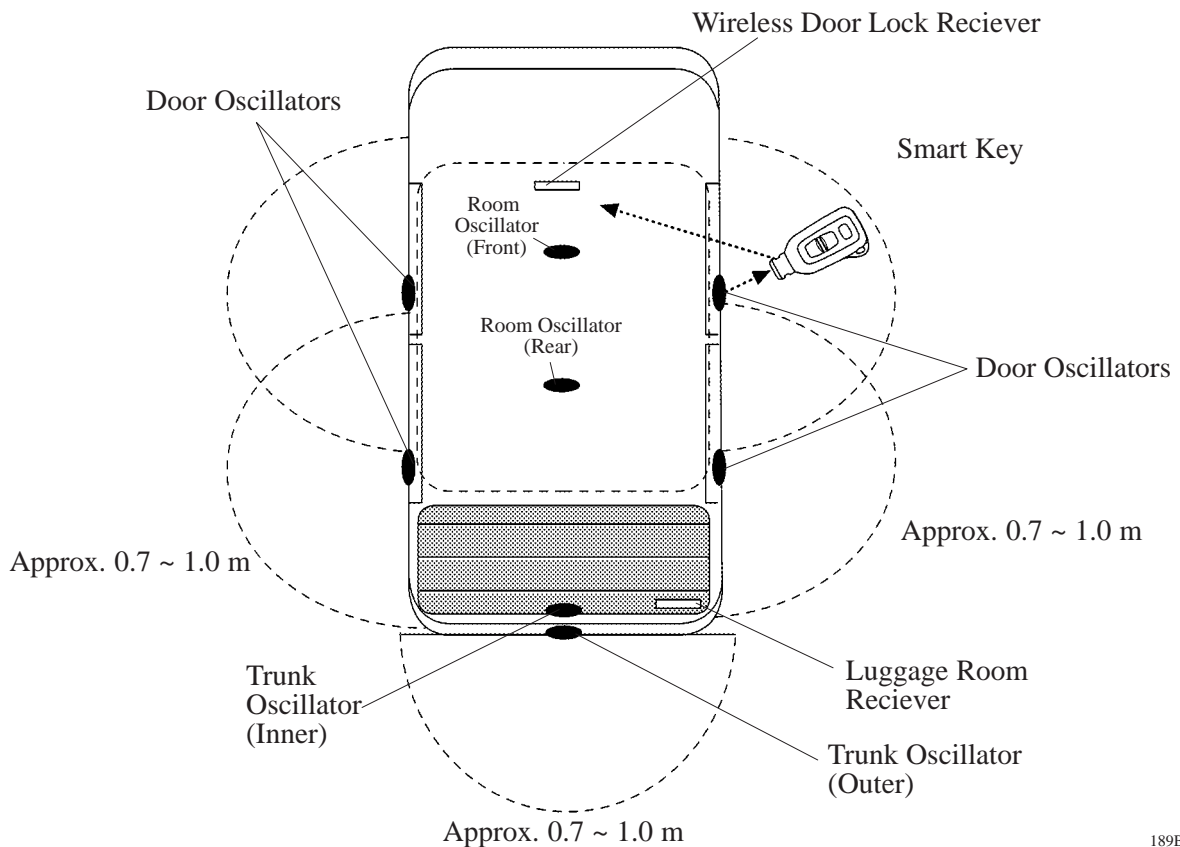
► Feature of Smart Key System ◀

Condition	Description	Conventional	Smart Key
General	User has many keys.	User must pull out the keys and select the appropriate key.	There is no need to select the key because it suffices to merely have it in one's possession.
Unlock	User is about to enter the vehicle with a handful of luggage.	User must first set the luggage down in order to hold the key.	A door can be unlocked by merely touching its outside handle.
	User with the key in a briefcase is about to enter the vehicle.	User must look for the key before entering the vehicle. This is particularly inconvenient if it is dark outside or raining.	
Lock	User is about to exit the vehicle with a handful of luggage.	User must hold the key while also holding the luggage, making it cumbersome to handle the key.	A door can be locked by merely pressing the lock switch on the outside handle, without the use of a key.
Engine Start	When ignition switch or starter switch is ON, or OFF.	User must hold the key and insert it into the key cylinder.	There is no need to hold the key in one's hand.
Trunk Open	User places a handful of luggage in the luggage compartment.	User must first set the luggage down in order to hold the key.	The luggage compartment door can be opened by merely pressing the smart trunk open.
	User with the key in a briefcase is about to open the luggage compartment door.	User must look for the key before opening the luggage compartment door, which might be difficult if it is dark outside.	

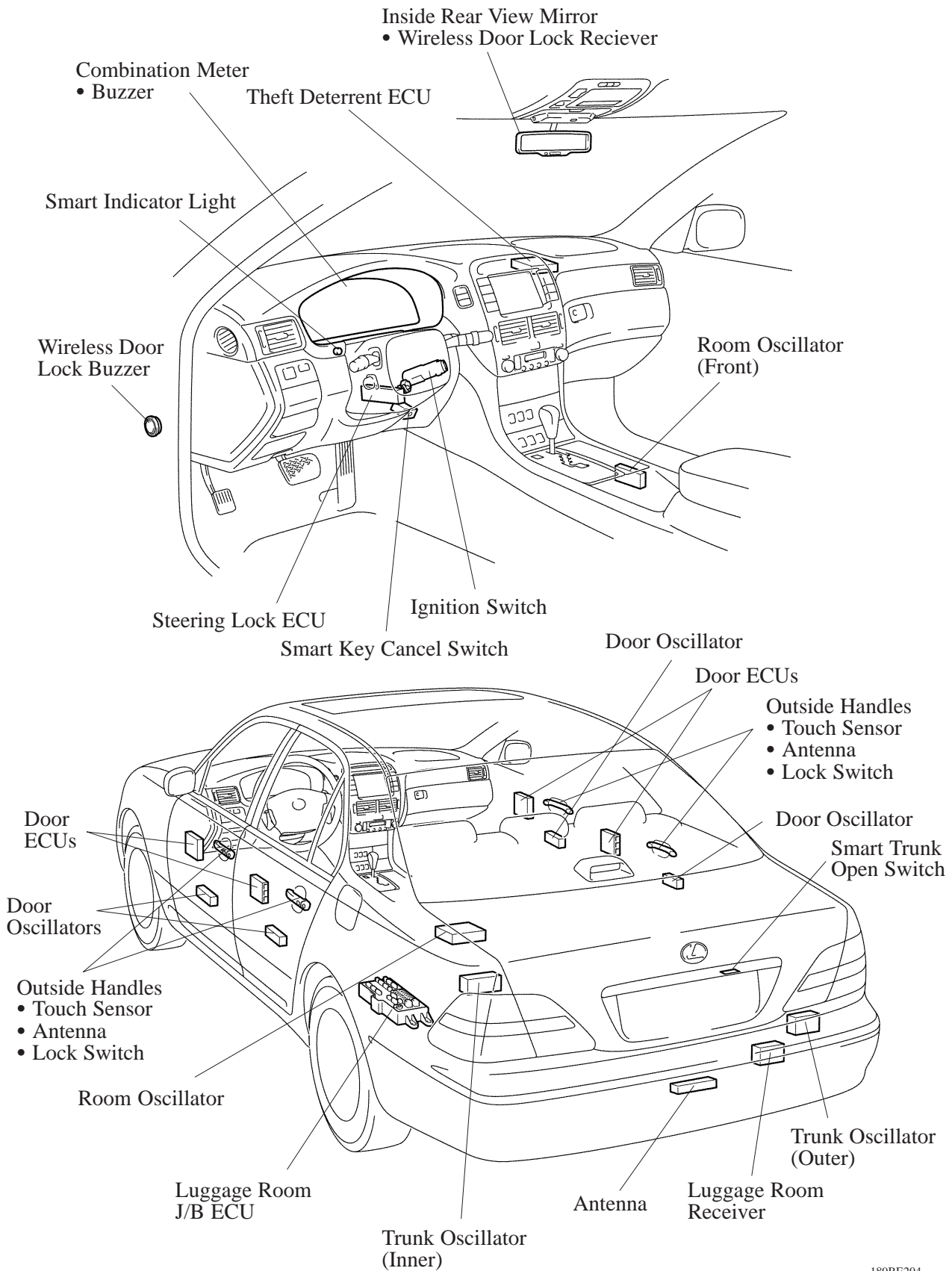
2. Overview of Parts Layout



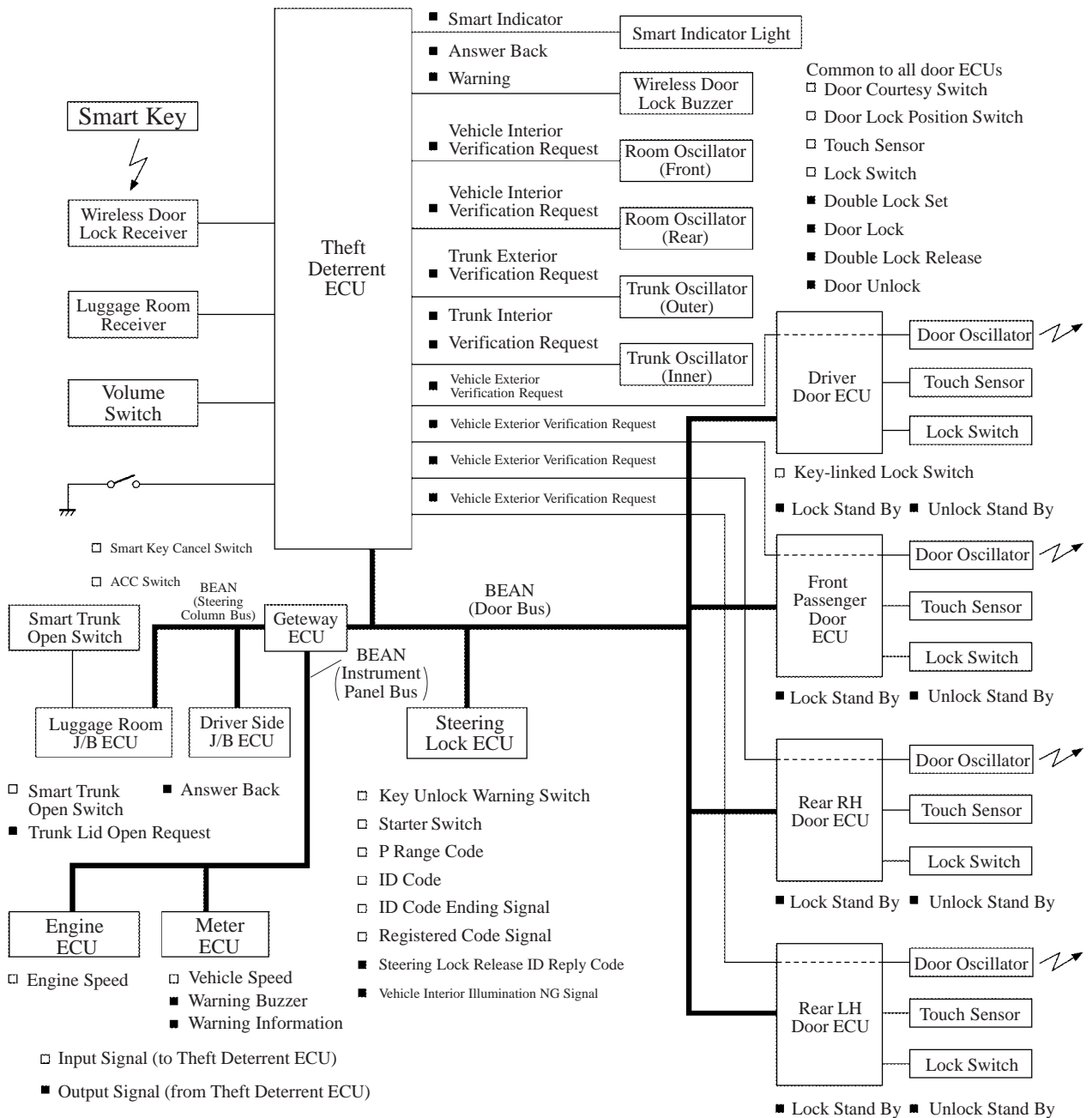
3. Detection Area



4. Layout of Component



5. Parts Input and Output Signals



BE

6. Function of Component

Function	Outline
Smart Key Cancel Switch	Turns the smart key system ON/OFF.
Smart Indicator Light	Informs the driver of the condition of the smart key system.
Smart Key	Receives the signals from the oscillators and returns the ID code to the receiver.
Door Oscillator	Intermittently transmits key detection signals within the detection area around each door, upon receiving a transmission request signal from the Theft deterrent ECU.
Outside Handle (Touch Sensor, Antenna, and Lock Switch)	<ul style="list-style-type: none"> • Transmits door oscillator signals. • Detects when a person touches an outside handle. • Transmits door lock request signals from the door ECUs via the BEAN to the Theft deterrent ECU.
Smart Trunk Open Switch	Transmits a trunk lid open request signal from the Luggage room J/B ECU via the BEAN to the Theft deterrent ECU.
Room Oscillator (Front and Rear)	Transmits a key detection signal within the detection area in the vehicle interior upon receiving a transmission request signal from the Theft deterrent ECU.
Trunk Oscillator (Inner)	Transmits a key detection signal within the detection area in the luggage room upon receiving a transmission request signal from the Theft deterrent ECU.
Trunk Oscillator (Outer)	Transmits a key detection signal within the detection area around the luggage room door upon receiving a transmission request signal from the Theft deterrent ECU.
Wireless Door Lock Receiver (enclosed in the inside rear view mirror)	Receives the ID code from the smart key and transmits it to the Theft deterrent ECU.
Luggage Room Receiver	Receives the ID code from the smart key in the luggage room and transmits it to the Theft deterrent ECU.
Starter Switch	Inputs the position of the starter switch into the Steering lock ECU.
Theft Deterrent ECU	<ul style="list-style-type: none"> • Identifies and checks the ID codes from the wireless door lock receiver and the luggage room receiver, then transmits signals to the ECUs (Steering lock ECU, Door ECUs, Driver side J/B ECU, Passenger side J/B ECU, and Luggage room J/B ECU) if the ID codes match. • Upon receiving signals from the switches, it transmits an intermittent transmission request signal to the door oscillators and a transmission request signal to other oscillators in accordance with the conditions.
Steering Lock ECU	Upon receiving signals from the Theft deterrent ECU, it transmits a steering lock lock/unlock signal or an engine immobiliser cancel signal.
Each Door ECUs	<ul style="list-style-type: none"> • Upon receiving signals from the Theft deterrent ECU, it outputs door lock/unlock signals. • Transmits the conditions of the doors to the Theft deterrent ECU.
Luggage Room J/B ECU	<ul style="list-style-type: none"> • Upon receiving signals from the Theft deterrent ECU, it outputs a luggage compartment door open signal. • In accordance with the condition of the luggage compartment door courtesy light switch, it transmits a luggage compartment door close signal to the Theft deterrent ECU.

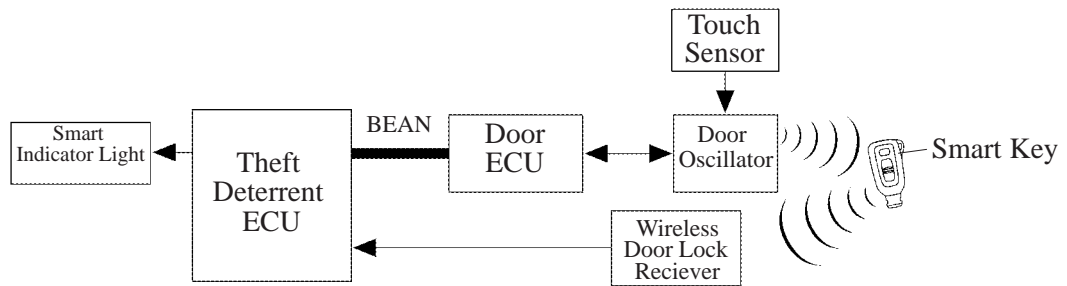
7. System Operation

Smart Unlock

To detect the location of the smart key, the doors of the vehicle must be locked. The door oscillators transmit key detection signals at prescribed intervals in order to form vehicle exterior detection areas (approximately 0.7 to 1.0 m around each outside door handle).

When the smart key enters a detection area, the system automatically checks the ID codes. When this is completed, the door that has detected the smart key assumes the unlock standby condition in accordance with the prescribed unlock mode. In this condition, if a person touches the touch sensor on the outside door handle, the door becomes unlocked. At this time, the smart indicator light flashes.

- (All door unlock mode: All door unlock
- One-side door unlock mode: Unlocks the front and rear doors on the side where the smart key is detected.
- Individual door unlock mode: Unlocks only the door that has detected the smart key.

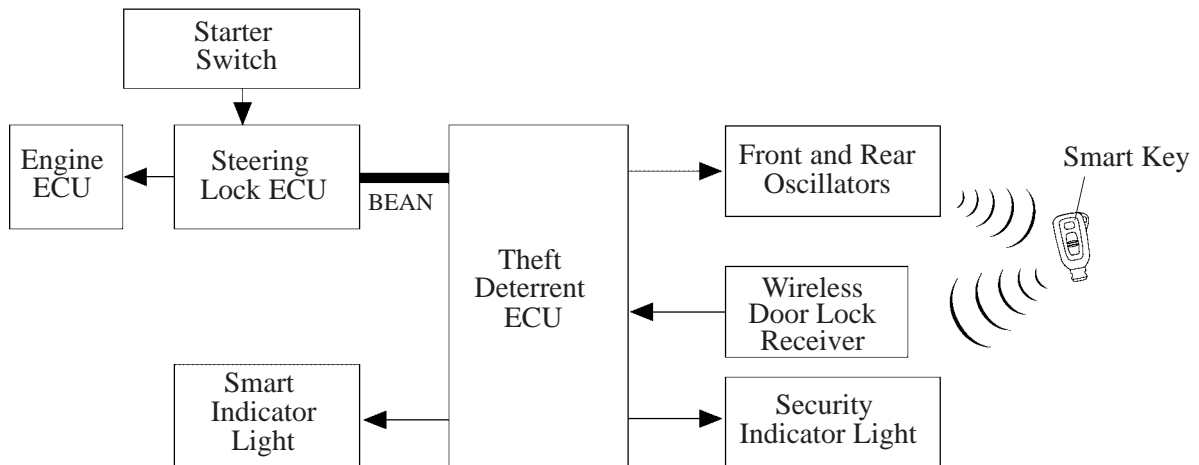


189BE174

Smart Ignition

When the user who has the smart key presses the starter switch, the Theft deterrent ECU receives a request signal from the Steering lock ECU. Then, the presence of the smart key is detected by the front and rear oscillators in order to check its ID code.

When the ID code checking is completed, the smart indicator light illuminates, and when the steering lock is unlocked and the engine immobiliser is canceled, the security indicator light turns OFF. Furthermore, when the starter switch is turned to the ACC position, the smart indicator light turns OFF. When the starter switch is turned to the LOCK position, the steering lock becomes locked, the engine immobiliser becomes set, and the security indicator light flashes.

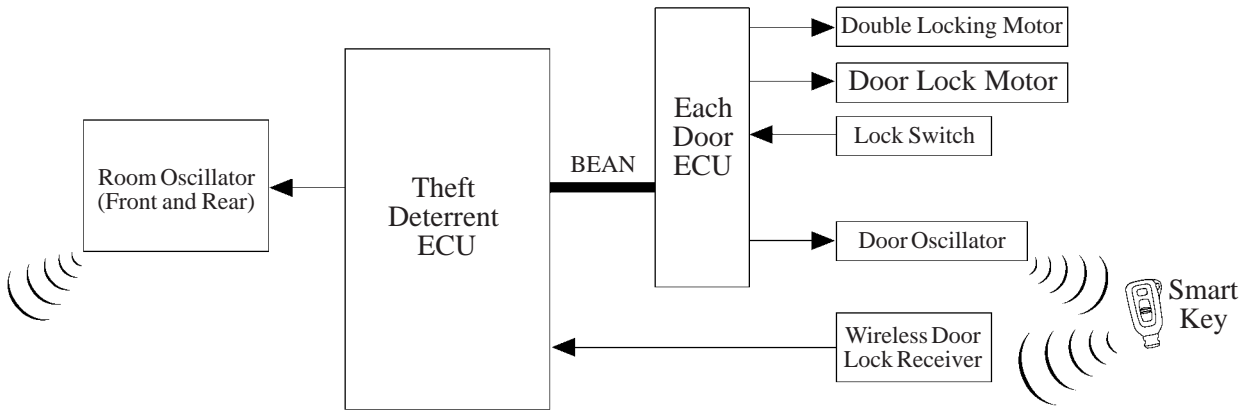


189BE175

Smart Lock

- When the smart key is located outside of the vehicle and all the doors are closed, pressing the lock switch of the outside handle of the door that has detected the key causes the door and room oscillators to transmit smart key detection signals. Upon detecting that the smart key is not located in the vehicle interior, but outside of the vehicle, the doors become locked.

On the models with the double-lock mechanism, pressing the lock switch again within 2.5 seconds causes the double lock to set.

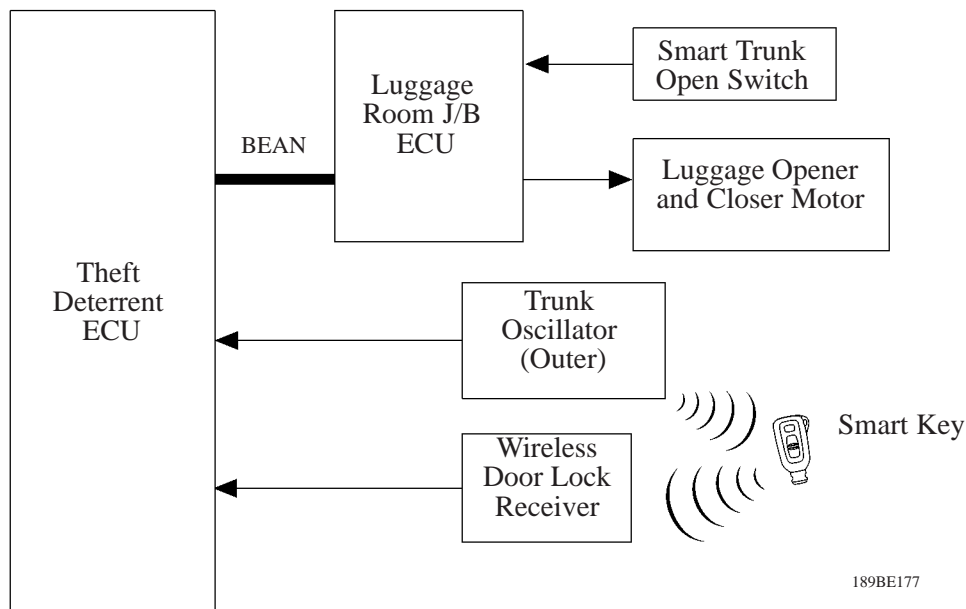


189BE176

- Upon completing the smart lock, the mode changes to the unlock standby condition. If a vehicle interior check is executed immediately thereafter, it will result in a vehicle exterior check OK, causing the mode to assume the unlock standby condition. If the door is locked in this state, and the user subsequently pulls on the outside handle to verify whether the door is locked, the door will become unlocked. Therefore, a waiting time is provided so that the vehicle exterior check is performed approximately 2.5 seconds later.

Smart Trunk Open

When the user who has the smart key presses the smart trunk open switch, the outer luggage oscillator emits a smart key detection signal, checks the ID code, and after the check is completed, it opens the luggage compartment door.



189BE177

Warning Function

1) General

Because the smart key system is so convenient, the driver could become unaware of the presence of this key, which could lead to human errors.

- Examples:
1. The driver is unaware that the key has been taken out of the vehicle by an occupant.
 2. The driver exits the vehicle with its engine running.
 3. The driver exits the vehicle with its shift lever in a position other than “P”.

If the situations described above occur, they could lead to a serious problem, such as an inability to restart the engine once it has been turned OFF or the possible theft of the vehicle.

For this reason, the system is equipped with warning functions against possible human errors (as well as some non-human errors) assuming the situations described below.

2) Assumption: The driver is about to exit the vehicle without turning LOCK the starter switch.

Possible effects without the warning		Vehicle theft or drained battery
Detection conditions		A warning is issued when all the conditions given below have been met: <ul style="list-style-type: none"> • Shift lever is in the “P” position. • Starter switch is in the ACC or IG ON position. • Driver’s door is open.
Type of warning	Buzzer (in combination meter)	Sounds continuously (and stops if the starter switch is turned OFF or the driver’s door is closed).
	Multi-information Display	—
	Wireless Door Lock Buzzer	—

3) Assumption: Without turning the starter switch LOCK, the driver or an occupant takes the smart key out of the vehicle.

Possible effects without the warning		Vehicle theft or inability to restart the engine
Detection conditions		If all the conditions listed below are met and a vehicle interior check results in NG, a warning will be issued. <ul style="list-style-type: none"> • Shift lever is in the P position. • Starter switch is in a position other than LOCK. • Any door that is opened and closed.
Type of warning	Buzzer (in combination meter)	Sounds once upon detection. Sounds once again if the vehicle is started to be driven in this state.
	Multi-information Display	“KEY IS NOT DETECTED” appears on the display and disappears when the starter switch is turned LOCK or the vehicle interior check results are OK.
	Wireless Door Lock Buzzer	Sounds 3 times upon detection and stops when the starter switch is turned LOCK or the vehicle interior check results are OK.

BE

4) **Assumption: Doors locked without turning LOCK the starter switch.**

Possible effects without the warning		Vehicle theft or inability to restart the engine
Detection conditions		If all the conditions listed below are met and vehicle interior and exterior checks result in NG for the interior and OK for the exterior, a warning will be issued. <ul style="list-style-type: none"> • Shift lever is in the P position. • Starter switch is in a position other than LOCK. • All doors are closed. • Lock switch on the outside handle is ON.
Type of warning	Buzzer (in combination meter)	—
	Multi-information Display	—
	Wireless Door Lock Buzzer	Sounds for 2 seconds.

5) **Assumption: With the shift lever in a position other than P and the starter switch not being turned LOCK, the user is about to exit the vehicle.**

Possible effects without the warning		Vehicle theft or inability to restart the engine
Detection conditions		If all the conditions listed below are met and a vehicle interior check results in NG, a warning will be issued. <ul style="list-style-type: none"> • Starter switch is in the ACC or IG ON position. • Shift lever is not in the P position. • Driver's door is closed and is opened.
Type of warning	Buzzer (in combination meter)	Sounds continuously and stops when the shift lever is in the P position or the driver's door is closed. If the vehicle is started to be driven in this state, the buzzer sounds once again.
	Multi-information Display	“SHIFT TO P RANGE” and “KEY IS NOT DETECTED” appear alternately. “SHIFT TO P RANGE” disappears when the shift lever is moved to the P position. “KEY IS NOT DETECTED” disappears when the starter switch is turned LOCK or the vehicle interior check results are OK.
	Wireless Door Lock Buzzer	Sounds continuously and stops when the shift lever is in the P position or the driver's door is closed.

6) **Assumption: With the shift lever in a position other than P, an occupant takes the smart key out of the vehicle.**

Possible effects without the warning		Inability to restart the engine
Detection conditions		If all the conditions listed below are met and a vehicle interior check results in NG, a warning will be issued. Shift lever is not in the P position. <ul style="list-style-type: none"> • Starter switch is in a position other than OFF. • A door other than the driver's door that is opened and is closed.
Type of warning	Buzzer (in combination meter)	Sounds once upon detection. Sounds again if the vehicle is started to be driven in this state.
	Multi-information Display	“KEY IS NOT DETECTED” appears on the display and disappears when the starter switch is turned LOCK or the vehicle interior check results are OK.
	Wireless Door Lock Buzzer	Sounds 3 times upon detection and stops when the starter switch is turned LOCK or the vehicle interior check results are OK.

7) Assumption: An attempt is made to lock the doors with the smart key left inside the vehicle.

Possible effects without the warning		Vehicle Theft
Detection conditions		If all the conditions listed below are met and a vehicle interior check results in NG, a warning is issued. <ul style="list-style-type: none"> • Starter switch is in the LOCK position. • All the doors are closed. • The lock switch on the outside handle is turned ON.
Type of warning	Buzzer (in combination meter)	—
	Multi-information Display	—
	Wireless Door Lock Buzzer	Sounds for 2 seconds.

8) Assumption: An attempt is made to lock a door that is ajar.

Possible effects without the warning		Vehicle theft or drained battery
Detection conditions		If all the conditions listed below are met and vehicle interior and exterior checks result in NG for the interior and OK for the exterior, a warning will be issued. <ul style="list-style-type: none"> • Starter switch is in the LOCK position. • One of the doors is open. • Lock switch on the outside handle is ON.
Type of warning	Buzzer (in combination meter)	—
	Multi-information Display	—
	Wireless Door Lock Buzzer	Sounds for 10 seconds and stops when one of the conditions listed below occurs. <ul style="list-style-type: none"> • Wireless door lock remote control unlock signal is input. • Starter switch is pushed. • All the doors are closed.

9) Assumption: The voltage of the smart key has dropped.

Possible effects without the warning		Smart control is suddenly disabled.
Detection conditions		If the condition given below is met, a vehicle interior check is performed, and a code indicating the voltage drop of the smart key battery is received, a warning is issued. <ul style="list-style-type: none"> After the starter switch is kept ON for approximately 20 minutes, it is subsequently turned OFF.
Type of warning	Buzzer (in combination meter)	Sounds once upon detection.
	Multi-information Display	“LOW KEY BATTERY” appears for approximately 5 seconds.
	Wireless Door Lock Buzzer	—

10) Assumption: The smart key is placed outside of the engine startable area.

Possible effects without the warning		User is perplexed.
Detection conditions		If the condition given below is met and a vehicle interior check results in NG, a warning is issued. <ul style="list-style-type: none"> Starter switch is pushed.
Type of warning	Buzzer (in combination meter)	Sounds once upon detection.
	Multi-information Display	“KEY IS NOT DETECTED” appears for approximately 5 seconds.
	Wireless Door Lock Buzzer	—

11) Assumption: A wrong smart key was inserted to the starter switch.

Possible effects without the warning		User is perplexed.
Detection conditions		When the steering lock ECU detects different ID code by immobiliser system.
Type of warning	Buzzer (in combination meter)	Sounds once upon detection.
	Multi-information Display	While a smart key is inserted to the starter switch, “KEY IS DIFFERENT” appears.
	Wireless Door Lock Buzzer	—

Luggage Compartment Smart Key Confinement Prevention Function

If the smart key is located inside the luggage compartment, even though the luggage compartment door can be closed, a warning will be issued. The luggage compartment door can be opened with the luggage compartment door open switch, thus preventing the confinement of the smart key.

Smart Key and Vehicle Battery Savings Function

1) Vehicle Battery Savings

In the smart key system, signals are emitted outside of the vehicle at a prescribed interval (300 ms) when the doors are locked. Therefore, the vehicle battery could be drained if the vehicle remains parked for a long time. For this reason, the controls listed below are effected.

Condition	Control
No response from smart key for more than 10 days	Signal transmission interval is extended from 300 ms to 600 ms.
No response from smart key for more than 20 days	Automatically deactivates the smart key system.

► Reinstatement conditions ◀

- A wireless door lock remote control signal (lock, unlock, or trunk lid open) is input and the ID matches.
- A lock switch signal for the outside handle is input.
- A door is locked or unlocked in unison with the movement of the mechanical key.

2) Smart Key and Vehicle Battery Savings

In the smart key system, if the smart key is constantly located within the vehicle exterior detection area, the system maintains periodic communication with the smart key. Therefore, if the vehicle remains parked in that state for a long time, the smart key and the vehicle battery could be drained.

For this reason, if this state continues longer than 10 minutes, the smart key system automatically becomes deactivated. The reinstatement conditions are listed above.



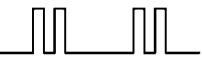

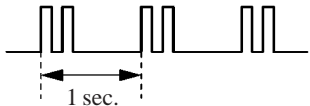

Smart Indicator Light Function

The smart indicator light illuminates or flashes to inform the user of the control conditions of the smart key system.

- When the starter switch is pushed and the vehicle interior check results are OK, the smart indicator light illuminates.
- When the starter switch is in the OFF position and if any door is unlocked, the smart indicator light flashes.
- The smart indicator light is turned OFF in a condition other than those described above. (As a rule, when all the doors are locked and the starter switch is in a position other than OFF.)

Smart Unlock Mode Selector Function

When the starter switch is OFF, and the smart key's lock switch and trunk lid opener switch remain depressed for approximately 5 seconds, the smart unlock mode can be switched as follows: all door unlock → one side unlock → individual door unlock. The control for informing the user of the conditions at this time is effected as described below.

Mode	Wireless Door Lock Buzzer	Combination Meter		
		Multi-informatin Display		Buzzer
Individual Door	 189BE178	 189BE181	Displays 5 seconds	Sounds once
One Side	 189BE179	 189BE182	Displays 5 seconds	Sounds once
All Door	 189BE180	 189BE183	Displays 5 seconds	Sounds once

NOTE

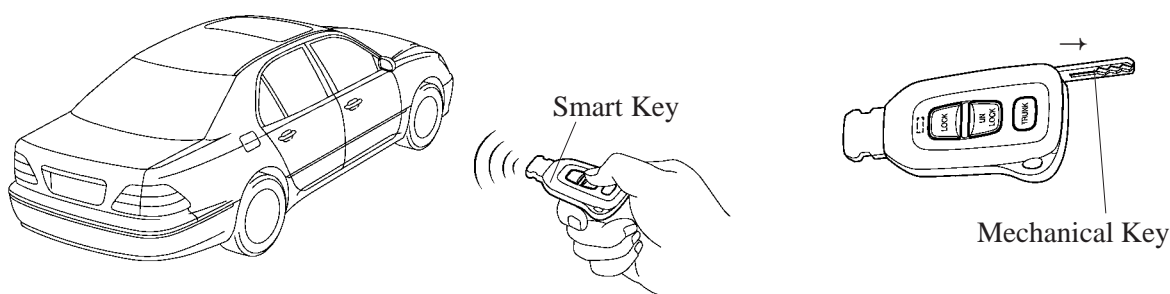
- This function only switches the unlocking modes of the smart key system. It does not switch the unlocking of the wireless door lock remote control.
- In the individual door unlock mode, only the door that has detected the smart key becomes unlocked.
- In the one-side unlock mode, only the doors of the side on which the smart key has been detected becomes unlocked.
- In the individual door or one-side unlock mode, if smart unlock is effected, the unlock control for the doors other than those of the respective mode is stopped in order to ensure security.

Smart Power Window and Moon Roof Function

After the door is smart-locked through the lock switch on the outside handle, if the lock switch remains depressed for approximately 3 seconds, the system starts the close operation of the power windows in all the doors and the moon roof. The wireless door lock buzzer sounds once at the time this operation is started.

Smart Cancel Switch

A smart cancel switch is provided at the bottom of the instrument panel on the driver side. Pressing this switch stops all the smart functions. In this case, the smart key can be used to start the engine by inserting, and it also can operate the wireless door lock remote control function. The locking and unlocking of the doors and the opening of the trunk can be performed with a mechanical key.



189BE184

BE

Smart Illumination Control

This control is provided to enhance the ease of in-and-out access during nighttime. After approximately 3 seconds have elapsed since the user has gone out of the detection area, if the user who has the smart key subsequently enters the vehicle exterior detection area, the system transfers to the door unlock standby mode. At this time, the front foot light and the front interior light are illuminated. The lights will be turned OFF in accordance with the control of the illuminated entry system.

This control will not be activated if the user remains in the detection area.

8. Smart Key System Operation Precautions

Smart Functions in General

1) Functions and operation ranges:

The functions will not operate if the smart key is not present within the detection areas described below. Furthermore, the functions may not operate or their operating range may decrease if the battery is drained or in the presence of strong radiowaves or noise. There are also areas in which the functions may not operate properly due to the shape of the vehicle body.

- Smart lock and smart unlock: Applicable within approximately 0.7 to 1.0 m radius from each door handle.
However, this function may not operate near the windows or door handles.
- Smart ignition: Applicable within vehicle interior
This function may not operate if the smart key is placed on the instrument panel, on the rear tray, in the glove box, or on the floor; therefore, do not place the smart key in those areas. If the smart key is placed in the luggage compartment, the engine cannot be started. Even if the smart key is placed outside of the vehicle, this function may not operate if the smart key is placed near a window.
- Smart trunk open: applicable within approximately 0.7 to 1.0 m radius from the trunk lid opener push switch
However, this function may not operate if the smart key is placed near the center of a bumper.

2) The smart key system uses very weak radiowaves:

The smart functions and the wireless door lock remote control functions may not operate properly (unable to operate the smart lock, unlock, ignition, and trunk open functions, or a false alarm is issued) in the situations described below. In this case, use the enclosed mechanical key to lock or unlock the doors and insert the smart key to operate the ignition.

- The presence of a facility that generates strong radiowaves nearby, such as a TV tower, electric power plant, or broadcasting station.
- The user has a wireless communication device such as a wireless transmitter or portable telephone along with the smart key.
- The smart key is covered with a metal object or is placed near a metal object.
- A radiowave type wireless door lock remote control is being used in the vicinity.
- When placing by electrical appliances etc.

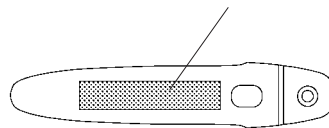
3) The smart functions will not operate if the battery enclosed in the smart key becomes drained:

In this case, use the enclosed mechanical key to lock or unlock the doors and insert the smart key to operate the ignition.

Smart Unlock

- To perform a smart unlock, make sure to touch the surface area of the door handle as shown in the diagram below.
Its response may be delayed if the door handle is touched by a hand wearing a leather glove or a ski glove.
- When performing a smart unlock, verify that the door has been unlocked (models other than Europe: answer back by the wireless door lock buzzer, hazard light, and flashing of the smart indicator; Europe: answer back by the hazard light, flashing of the smart indicator) before pulling on the door handle.
The door might not unlock if the user approaches it suddenly or pulls on the door handle suddenly. If a door could not be unlocked, the system retries unlocking it four times, at 750 ms intervals. However, if the user is pulling on the handle during a retry, it might not be possible to unlock the door due to mechanical constraints. In this case, return the door handle one time to its original position.
- If the smart key is placed near the door handle, it might not be possible to smart unlock the door at times.
- As long as the smart key is within the vehicle exterior detection area, the door will unlock even if a person who does not have the smart key touches the door handle. However a door other than the door that resulted in check OK will not be unlocked.
- When the smart key is within the vehicle exterior detection area, the door might smart unlock if a large amount of water is splashed on the door handle, such as during a car wash or in heavy rain. However, if the door is not opened or closed within approximately 30 seconds, it will lock automatically as a theft preventive measure.

Make sure to touch this area



Touch Sensor Sensing Area

189BE185

BE

Smart Lock

- To lock a door, make sure to press the lock switch on the outside handle. The door might not lock if it is depressed too quickly.
- It might not be possible to smart lock the door if the smart key is placed near the vehicle interior (window or door handle).
- Even if the smart key is within the vehicle exterior detection area, if the lock switch is depressed without turning OFF the starter switch, a warning will be issued to alert the driver that the starter switch has not been turned OFF (by emitting a beep sound outside of the vehicle), without being able to smart lock the door.
- When the smart key is within the vehicle interior detection area, pressing the lock switch will cause the system to issue a key confinement warning (by emitting a beep sound outside of the vehicle), without being able to smart lock the door.
Even if the smart key is located outside of the vehicle, the warning buzzer could beep if the smart key is placed near a window or door handle. In this case, take the smart key slightly away from the door and press the lock switch.

- If the smart key is placed on the instrument panel, on the rear tray, in the glove box, or on the floor, the key confinement prevention function might not activate, causing the doors to lock through the smart lock operation. Therefore, make sure to keep the smart key in your possession.
- Even if the smart key is located within the vehicle interior detection area, it is possible to perform a wireless lock, manual lock, or key-linked lock. However, after a door is locked in this manner, it is prohibited from being smart unlocked. (After a wireless lock, manual lock, or key-linked lock, it is possible to smart unlock the door as long as the smart key is not located within the vehicle interior detection area.)
- After a smart lock, the door cannot be smart unlocked for approximately 3 seconds.
- In the case of a model equipped with the double locking system, pressing the lock switch once normally locks the doors and pressing it twice sets the double locking. The second pressing of the switch must be performed within 2.5 seconds after the first lock by the pressing of the lock switch ON has been verified (through the lock clicking sound, answer back by the hazard light flashing once, or the smart indicator flashing and turning OFF). The doors cannot be double-locked if the switch is depressed after 2.5 seconds have elapsed.

Smart Ignition

- After the smart indicator has illuminated upon pushing the starter switch, slowly turn the starter switch. It could become caught if it is turned too quickly.
 - If the starter switch is depressed when the smart key is not located within the vehicle interior detection area, “KEY IS NOT DETECTED” will appear on the display.
 - The engine can be started if the smart key is located in the vehicle interior. Before exiting the vehicle, return the starter switch to the LOCK position, and carry the smart key in your possession.
- (1) If the driver’s door is opened without returning the starter switch to the LOCK position (except when the engine is running), a warning will be issued to alert the driver that the starter switch has not been turned OFF (by emitting a bong-bong sound within the vehicle interior) while the door remains open.
 - (2) If the smart key is taken out of the vehicle without returning the starter switch to the LOCK position, if any door that is open is subsequently closed, a warning will be issued to alert the driver that the starter switch has not been turned OFF by emitting a bong sound in the vehicle interior and a beep-beep-beep sound outside of the vehicle. At the same time, the display in the meter will indicate “KEY IS NOT DETECTED”.
 - (3) If the shift lever is in a position other than “P”, the starter switch cannot be turned to the LOCK position. If the driver’s door is opened in this state, a warning will be issued to alert the driver that the shift lever has not been returned to the “P” position by indicating on the display in the meter “SHIFT TO P RANGE”, and by emitting a beep sound within the vehicle interior. After the driver reenters the vehicle, the engine will not start unless the shift lever is in the “P” position.

Smart Trunk Open

At times, the luggage compartment door might not open if the smart key is placed near the center of a bumper.

Smart Unlock Mode Selector Function

In the one-side or individual door unlock mode, if the user carries the smart key through the driver's door to the inside of the vehicle, all the smart unlock controls will be stopped to ensure security. Beware that this function prevents the door from being unlocked by a person who has a separate but legitimate key, or if the user exits the vehicle from the driver's seat and tries to smart unlock another door.

The smart door unlock control becomes reinstated when the doors are smart locked or wireless locked from outside of the vehicle.

Luggage Compartment Smart Key Confinement Prevention Function

Do not place the smart key in the luggage compartment.

- The key confinement prevention function will be activated when the luggage compartment door is closed while the smart key is placed inside the luggage compartment. Beware that the system might not operate properly depending on the surrounding radiowave conditions such as the location of the key (near the spare tire or edge of the luggage compartment for example) or the condition of the key (placed inside a metal briefcase, near a metal object, etc.).
- If the smart key is confined in the luggage compartment, the luggage compartment door can be subsequently opened by turning the trunk lid opener push switch ON. Therefore, there is the risk of vehicle theft. When a warning is issued, make sure to check the inside of the luggage compartment.
- If the smart key is located right next to the luggage compartment door, beware that a key confinement warning may be issued by beeping outside of the vehicle while the luggage compartment door is being closed.

Smart Power Window and Moon Roof Function

With the smart key located within the vehicle exterior detection area, keeping the lock switch on the door handle depressed causes the power windows to close. Therefore, do not unnecessarily keep the lock switch on the door handle pressed, or lean against the door handle.

Smart Cancel Condition

The smart function will not operate under the conditions listed below. Make sure to check them in case the smart functions do not operate at all.

- The smart cancel switch provided below the driver's side instrument panel is turned ON.
- The key is inserted in the starter switch.
- The smart key is the sub key (there is no trunk lid opener push switch on the key).
- There is no battery in the smart key (the indicator does not flash even if the buttons on the smart key are depressed).