

iKEY



USERS GUIDE



**Operation Information Manual for
iKEY and iKEY RS Systems**

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IMPORTANT NOTICE

1. **Do not leave the iKey transmitter in close proximity of electromagnetic devices such as mobile phone, network device or microwave.**
2. Do not apply any metallic cover or place iKey transmitter next to metallic material/surface.
3. Do not subject iKey transmitter to impact and bending force. If placed in a wallet or handbag ensure it does not bend easily.
4. Do not leave the iKey transmitter in high temperatures for excessive periods of time, for instance, on the dash or under direct sunlight.
5. Do not expose or submerge the iKey transmitter in liquid. If occurs, remove battery from Smart Key immediately and dry circuit board for a few days prior to re-insert battery.
6. This system is susceptible to interference caused by heavy rain fall, high-voltage transmission lines, cellular or broadcasting stations and other high-frequency electronic devices.
7. Do not modify, remove or disassemble the original system. If any unauthorized modifications are made, the proper operation of the system cannot be guaranteed and warranty will be void.

IKEY OEM TRANSMITTER FUNCTIONS OVERVIEW





1. iKEY Keyless Entry Function

iKEY Passive Keyless Entry function can be disabled for car wash, service, valet purposes. To disable/enable this function: with door **closed**, switch Ignition to **ACC**, depress and hold brake pedal then press and hold the **TRUNK RELEASE**  and **LOCK**  together for 2 seconds until horn honks. Vehicle will honk once if function is enabled or twice if disabled. While the iKEY Passive Entry function is disabled; the security LED will flash Blue when armed.

Attention if the iKey Passive Keyless Entry function is disabled:

- A valid iKey is still required and sensed within the proximity to disarm alarm and start the vehicle. Entering or starting vehicle without the iKey will set off the alarm function.
- Doors will not be locked or unlocked automatically when departing or approaching the vehicle. Make sure to lock the door manually when departing from the vehicle.

2. Security & Alarm Functions (Valet Mode)

The Security & Alarm function monitors the shock sensor, door switch, brake and ignition while system is in armed state. If vehicle is violated system will sound horn (or siren if installed) and flash parking lights for 30 seconds. However, ignition and starter function will be disabled until disarmed by a valid iKey or a Emergency Bypass Card. Security LED will flash Red upon disarm to remind driver that the alarm function was triggered while away. Alarm function can be disabled if it is not required. To disable/enable this function: with door **closed**, switch Ignition to **ACC** and press and hold the brake pedal then press & hold the **TRUNK RELEASE BUTTON**  and **UNLOCK**  together for 2 seconds until horn honks. Vehicle will honk once if function is enabled or twice if disabled. After alarm function is disabled; the security LED will flash purple when armed.



Attention if the Security / Alarm function is disabled:

- Alarm will not sound when the shock sensor, door, ignition triggered.
- The Push-Start system will function normally; therefore, engine cannot be started without sensing a valid iKey.


3. Door Lock Delay Function

The Door Lock Delay function prevents unwanted automatic locking and unlocking of the door while user frequently enter and exit the sensing range with iKeys. (i.e. unloading luggage, helping passenger out etc.) This function will disable the automatic locking function for 5 minutes if any door opened during the first minute of the activation, or it will time out in the first minute if all doors remain closed. The Door Lock Delay Function will delay system response to the Door-Not-Closed-Reminder function, please ensure all doors are closed before leaving the vehicle.






Ways to Activate the Door Lock Delay function

- **Press UNLOCK**  to unlock the doors and activate the Door Lock Delay. Parking lights will flash to indicate iKey Function is inactive. Press the **UNLOCK**  to extend the delay time.
- **Before Starting the vehicle:** Approach the vehicle with the iKey, once the vehicle disarmed and unlocked, enter the vehicle and apply brake pedal 2x quickly.
- **After turning the vehicle off:** Turn ignition OFF and apply brake pedal 2x quickly.

Ways to Exit the Door Lock Delay function

- The Door Lock Delay function will time-out after 5 minutes if any door was opened during the first minute of the activation, or it will time out in the first minute if all doors remain closed.
- Press **LOCK**  to exit Door Lock Delay Function.
- Apply and hold the brake pedal for more than 1 second.

Attention:



- If an extended period of time is needed to be in the close proximity to the vehicle for activities like car wash etc, it is suggested to disable the iKey Keyless Entry function temporarily.
- To disable/enable this function: with door **closed**, switch Ignition to **ACC**, apply the brake and press **LOCK**  1x then press and hold **TRUNK RELEASE**  and **UNLOCK**  together for 2 seconds until horn honks. Vehicle will honk once if function is enabled or twice if disabled.
- Not recommended to disable the Door Lock Delay Function. Once **UNLOCK**  is triggered, the iKey Function will be suspended and vehicle will not auto lock/unlock doors until **LOCK**  is triggered. In addition, parking lights will NOT flash to indicate iKey Function is inactive.

3. Ignition Controlled Door Lock/Unlock Function

Ignition lock function will automatically lock the doors when the brake is applied 10 seconds after vehicle started. Doors will automatically unlock when the ignition is turned OFF. For security reason the vehicle will not unlock if ignition is turned OFF in less than 2 minutes after turned ON. Follow the Programmable Features instruction under the Smart Key Installation manual to disable/enable this function.



4. Door-Not-Closed Reminder Function

Leaving the iKey sensing range with the doors open or ajar will trigger the Door Not Closed Reminder Function. Vehicle will double-chirp horn and flash parking lights 3 times to warn driver that one or more doors are not closed. If doors remain open after the warning, system will lock the doors regardless. Parking lights will continue to flash for additional two (2) minutes however, vehicle will be armed and the engine start will be disabled.



To disable/enable this function: with door **open**, switch Ignition to **ACC**, depress and hold brake pedal then press and hold the **TRUNK RELEASE**  and **UNLOCK**  together for 2 seconds until horn honks. Vehicle will honk once if function is enabled or twice if disabled.

5. Key-Not-Found Reminder Function (If iKey leaves sensing range with vehicle running)

If vehicle door is open-then-closed while vehicle is running it will trigger the system to search for the iKey for 6 seconds the next time the brake is applied. Vehicle will do nothing if iKey is found. If the iKey is not located, vehicle will double-chirp the horn and flash the parking lights 3 times. This to remind the current driver that the iKey is no longer detected and it needs to be present in the vehicle before it is driven to another location. Without the iKey, once the vehicle is turned off it will not be able to start again. However the bypass transponder could be used for START in this case.




To disable/enable this function: with door **open**, switch Ignition to **ACC**, depress and hold brake pedal then press and hold the **TRUNK RELEASE**  and **LOCK**  together for 2 seconds until horn honks. Vehicle will honk once if function is enabled or twice if disabled.

6. Alarm Shock Sensor or Manual "Knock Knock Unlock" Door Unlock Feature



Any impacts to your car while armed will trigger the shock sensor to respond. Depending on the severity of the shock, the system can react to a full shock by triggering the alarm function or it responds to a lighter shock (30% of the strength of a full shock) and giving a warn-away alarm by honk and flash parking lights 5 times. To acknowledge and stop a shock triggered alarm, approach the vehicle with the iKey or press **LOCK**  or **UNLOCK** .




Optionally the shock sensor can be used to trigger the Doors to Unlock "Knock Knock Unlock". In this mode the iKey will **NOT** unlock doors automatically when iKey is in range and depending on the shock sensor position and sensitivity, a light impact or tap on the vehicle will trigger the shock sensor to unlock the doors while iKey is in the sensing range.

Note: By default the Shock Sensor will used for the alarm function and it's disabled when vehicle is remote started.


To enable/disable this function: with door **closed**, switch Ignition to **ACC**, apply the brake and press **LOCK**  2x then press and hold **TRUNK RELEASE**  and **UNLOCK**  together for 2 seconds until horn honks. Vehicle will honk once if function is enabled or twice if disabled.

7. Auxiliary Output Function AUX 4th channel (Blue wire on PKE Accessory Harness)

If desired on Non-Remote Start systems a 4th channel can trigger an additional external function Press and hold the **TRUNK RELEASE**  and **LOCK**  for 3 seconds to activate the AUX Function.

To disable/enable this function: with door **closed**, switch Ignition to **ACC**, apply the brake and press **LOCK**  3x then press and hold **TRUNK RELEASE**  and **UNLOCK**  together for 2 seconds until horn honks. Vehicle will honk once if function is enabled or twice if disabled.

8. Vehicle Battery Power Saver Function

System will reduce the iKeys search frequency after 7 days of inactivity to conserve vehicle battery. In this state, the Smart Key sensitivity will be reduced and it takes longer (8–10 seconds) to identify the iKey or the Bypass Transponder Card. Press the **UNLOCK**  button once will also exit the Power Saver mode.

9. Auto Windows Closing (Additional Window Roll up Module needed)

If window closer module is installed, windows and sunroof left open will be closed in sequenced when vehicle is armed / locked.


1. Proximity Door Unlock / Alarm Disarm

Approach the vehicle and when the iKey enters the sensing range, system will disarm and unlock the doors immediately. Parking lights and horn/siren (if enabled) will flash and sound 2x. The status indicator light will flash BLUE to indicate system is disarmed.


2. Proximity Door Lock / Alarm Arm


Walk away from the vehicle and after the iKey exits the sensing range, system will arm and lock the doors immediately. Parking lights and horn/siren (if enabled) will flash 3x and sound 1x. Status indicator light will flash BLUE and RED alternatingly to indicate system is armed.

3. Remote Unlock / Disarm

Press and hold the **UNLOCK**  for 1 second to manually disarm and unlock the doors. Parking lights will begin to flash, indicating the lock delay function is active. See Door Lock Delay Function under the System Functions description for more info.

4. Remote Lock / Arm


While the iKey is outside the proximity sensing range: Press and hold the **LOCK**  for 1 second to manually lock the doors and arm the vehicle.

With the iKey is within proximity sensing range: Press & hold the **LOCK**  for 3 seconds to overwrite iKey function and manually lock the doors. **Caution: Doors will not be opened until iKey exit and re-enter into the sensing range, **DO NOT LEAVE IKEYS INSIDE THE VEHICLE WHEN NOT PRESENT**




5. EMERGENCY CARD Unlock and Alarm Disarm

Your Emergency Card provides an alternative method to gain access and start your vehicle. It's useful in the event your iKey becomes lost, damaged, battery depleted, submerged in liquid, etc. Place your Emergency Card next to the bypass antenna for 5 seconds to disarm, unlock doors and enable the Push-Start Ignition system. Once the Emergency Card is removed from the bypass antenna, the system will lock and arm after 10 seconds. User must enter and start the vehicle within this 10-second window to avoid trip alarm function. If longer disarm time is required; leave the Emergency Card over the bypass antenna to disarm continuously.



6. Remote Trunk Release

To release trunk, press and hold the **UNLOCK**  for 3 seconds. Please note the system will unlock and disarm the vehicle before opening the trunk. Make sure to arm and close the trunk when done.

7. Panic Function

While the iKey is outside the proximity sensing range; press and hold the **LOCK**  for 3 seconds to activate Panic Function. Parking lights will flash and horn/siren (if function enabled) will sound for 30 seconds. If the vehicle was remotely started, the engine will shutdown immediately.  Press **LOCK**  or **UNLOCK** to exit the Panic Function.

8. Remote Start (For Remote Start version systems only)

With the iKey outside the proximity sensing range; press and hold the **TRUNK RELEASE**  and **LOCK**  for 3 seconds. The parking lights will flash once to indicate remote start signal received. After 5 seconds the system will attempt to start the engine. If vehicle does not start at the first attempt (i.e. Cold engine start) system will attempt to start the engine up to three times. Once started vehicle will run for 15 minutes --- parking lights and will remain ON during this period.

Note: Press and hold the TRUNK RELEASE and LOCK button for 3 seconds to shutdown the remote start. For diesel vehicle there will be a delay while the vehicle's Wait-to-Start Light is ON. After 18 seconds the system will proceed to start the engine regardless.

9. Remote Start Ignition Take Over Procedure (For Remote Start version Systems Only)

After vehicle is remote started, use the follow steps to takeover ignition without restarting the engine:

1. Approach the running vehicle with a valid iKey to disarm alarm and unlock doors.
2. Enter the vehicle and without stepping on the brake, press the Start button **once**.
3. Step on the brake to exit Remote Start mode. (Start Button's status LED turns OFF and backlight stays ON) Vehicle is now safe to take out of the Park to drive.

PROGRAMMABLE FEATURE MENU

Brake must be applied when changing Features:

Function	Default	Door	Function Select	Enable / Disable
Security Alarm Function	Enabled	Closed	-	Press UNLOCK + TRUNK
iKey Entry Function	Enabled	Closed	-	Press LOCK + TRUNK
Door-Not-Closed Reminder	Enabled	Open	-	Press UNLOCK + TRUNK
iKey-Not-Found Reminder	Enabled	Open	-	Press LOCK + TRUNK
Door Lock Delay Function	Enabled	Closed	Press LOCK x1	Press UNLOCK + TRUNK
External Unlock Trigger	Disabled	Closed	Press LOCK x2	Press UNLOCK + TRUNK
Remote Start as AUX Trigger	Disabled	Closed	Press LOCK x3	Press UNLOCK + TRUNK

SECURITY RED/BLUE DASH LED

In Armed State (iKey Not Detected):

LED Color and Sequence	Description
Blue – Red – Blue	iKey Keyless Entry Function Enabled
Blue – Blue	iKey Keyless Entry Function Disabled
Red – Red (Slow)	Alarm Activated Record
Red – Red (Fast)	Alarming
Purple	Alarm Function Disabled
All OFF	iKey Keyless Entry and Alarm Functions Disabled

Red / Blue Dash LED Status	Description
Blue – Red - Blue	Doors Locked System Armed
Blue – Blue (Slow)	Valid iKey Detected / System Disarmed
Blue – Blue (Fast)	iKey Sense Delay After Ignition OFF
Red – Red (Fast)	Alarm has been "Activated" Notice

iKEY BATTERY

iKey's Battery Power

Communication is constant between the control unit and iKey while in sensing range. We suggest the following methods to conserve and prolong the iKey's battery power:

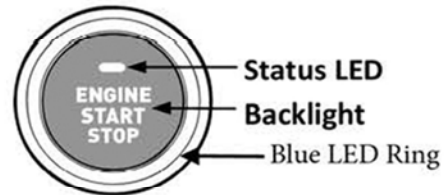
- Do not leave the iKey inside the vehicle when vehicle is OFF.
- Switch to ACC when staying in vehicle for extended periods of time.

Replacing the Battery

- Require one CR2032 lithium-ion battery
- Make sure the battery is inserted with the correct polarity.
- Use dry hands and ensure there is no debris in the battery compartment.
- Do not curve and avoid touching the PCB board when inserting the battery.
- Test the iKey after the battery replacement. No additional programming required.

PUSH START IGNITION OPERATION

The iKey Push-Start Ignition system will be enabled when a valid iKey is detected. The "ENGINE START STOP" button will be illuminated and the Red Status LED and Blue Ring will light indicating the vehicle is ready for starting



Following shows the operations of the Push-Start system:

<p>NO BRAKE APPLIED</p>	<p>Switching Ignition States</p> <p>When system is Authorized (Ready Mode) : Status LED is Red and Outer Ring is Blue (without applying the brake)</p> <ul style="list-style-type: none"> ▪ Press button 1st time: ACC (Status LED: Red) ▪ Press button 2nd time: ON (Outer Ring is Blue) ▪ Press button 3rd time: return to Ready mode
<p>BRAKE APPLIED</p>	<p>To Start the Engine</p> <p>Apply brake, Blue Outer Ring will Flash:</p> <ul style="list-style-type: none"> ▪ RS system: Tap button once to start engine automatically. ▪ Non-RS system Press and hold button until engine starts <p>Note: You may start the engine from any ignition state.</p> <p>Emergency Ignition: (Without Brake) Press and hold Start Button for 1.5 seconds to start the engine.</p>
<p>BRAKE APPLIED</p>	<p>To Stop the Engine</p> <p>Make sure the vehicle is stopped and in Parked (P) position Apply brake and press and hold the button for 0.5 seconds until the engine stops.</p> <p>Emergency Stop: (Without Brake) Press and hold Start Button for 3 seconds to stop the engine.</p>



WARNING

- **DO NOT PRESS THE PUSH-START BUTTON WHILE VEHICLE IS IN MOTION.**
- **To stop ignition in an emergency situation always change gear to Neutral first then press and hold the Push-Start button for 3 seconds.**
- **When exposed to direct sunlight the Push-Start button maybe hot to touch.**

PUSH-START (BUTTON) LED DESCRIPTION

Status LED	Blue LED Ring	Description
OFF	OFF	Push-Start Ignition Disabled
RED	ON	Push-Start Ignition Enabled
RED	Flashing	Ready to Start Engine
RED	OFF	Accessory (ACC) State
OFF	ON	Ignition (ON) State
BLUE	ON	Ignition (RUN) State
RED (Flashing)	Blue Flashing	Tach Programming Mode

ENGINE
START
STOP



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