

Smart Key System Check During PDS

Service Category General

Section Pre-Delivery Service

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2009	Venza	

Introduction

Some 2009 model year Venza vehicles are equipped with a Smart Key system, which allows the customer to enter and start the vehicle without using a mechanical key. To ensure the system is operating properly, the Smart Key functions (Smart Entry and Smart Start) should be inspected during Pre-Delivery Service (PDS). The following inspection procedure has been developed to confirm the proper operation of the Smart Key system prior to vehicle delivery.

NOTE

Check all of the Smart Keys using this TSB.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

Inspection Procedure

1. Remove all Smart Keys from vehicle.

NOTE

The remaining keys need to be a minimum of 1 meter (3 feet) away from the vehicle.

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Inspection Procedure (Continued)

2. Check Smart Entry function at doors.

NOTE

Registered Smart Key must be in actuation area No. 1 for this check (see Figure 1).

- A. Locking operation:

Holding one of the Smart Key assemblies, push the lock button on the outside door handle. All the doors should lock simultaneously. At this time, one beep will be heard and the turn signal lights will flash once.

- B. Unlocking operation:

NOTE

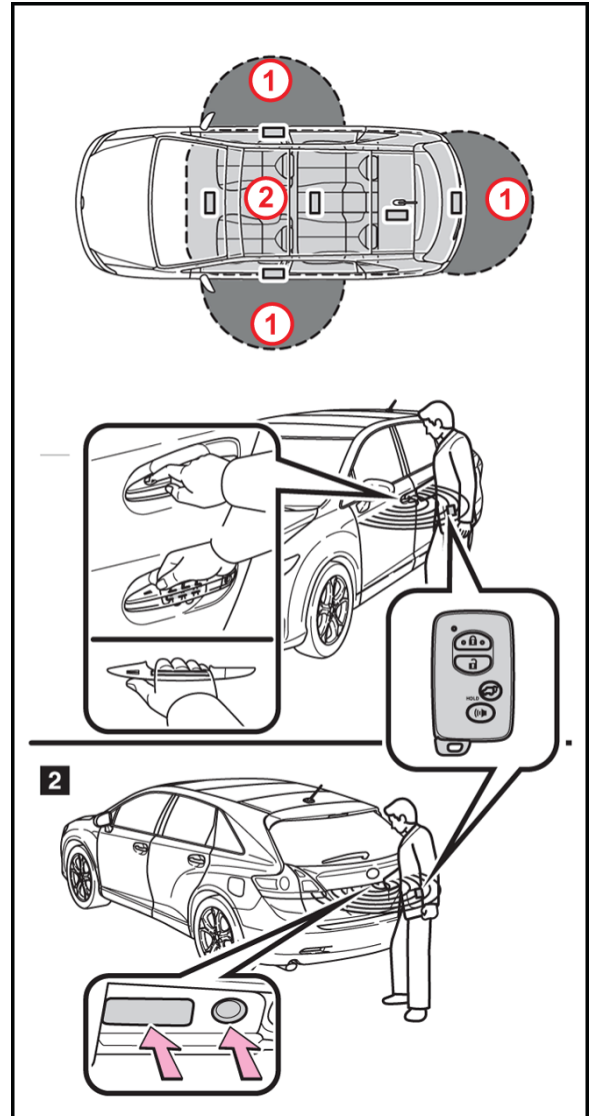
After checking the lock function, wait at least 3 seconds before checking the unlock function.

Grasp the outside door handle (sensors are located on the underside of the door handles). At this time, two beeps will be heard and the turn signal lights will flash twice.

NOTE

Only the driver's door unlocks when the driver's door handle is grasped. All the doors unlock when the passenger's door handle is grasped. Only the hatch assembly will unlock when the hatch handle is grasped.

Figure 1.



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Inspection Procedure (Continued)

3. Check the Wireless Door Lock function.

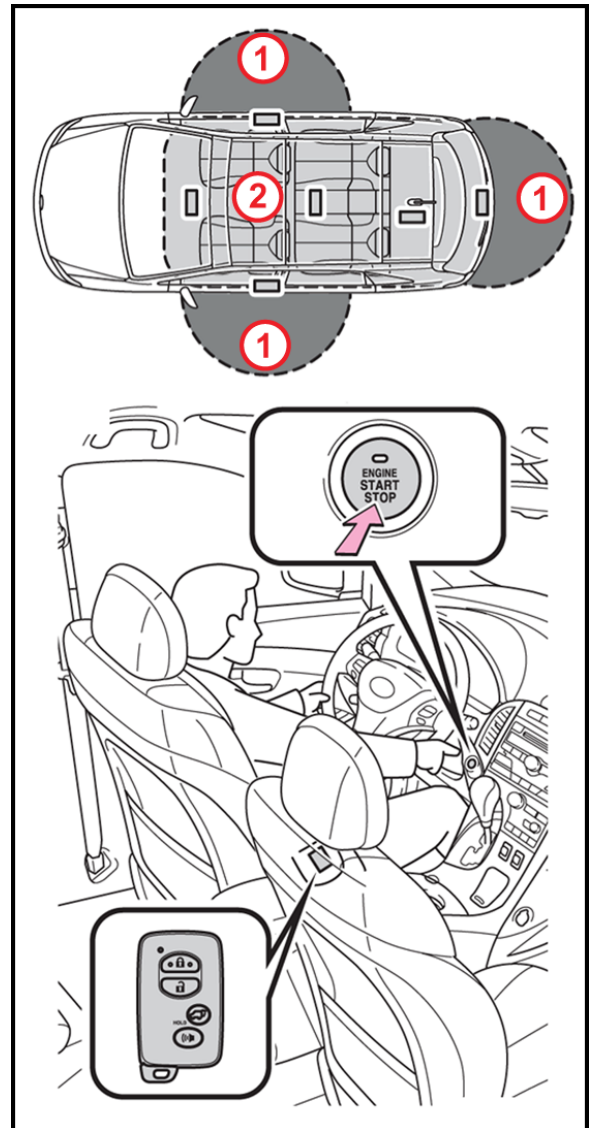
Using the remote outside of the vehicle, confirm that all doors can be locked and unlocked using the wireless remote.

4. Check Smart Start function from inside the vehicle.

NOTE

Registered Smart Key must be in actuation area No. 2 for this check (see Figure 2).

Figure 2.



- A. Check for proper activation of the “ENGINE START STOP” switch.

- (1) Make sure the gear selector lever is in the “P” position.

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Inspection Procedure (Continued)

- (2) Without depressing the brake pedal, press the “ENGINE START STOP” switch and confirm the mode changes properly.

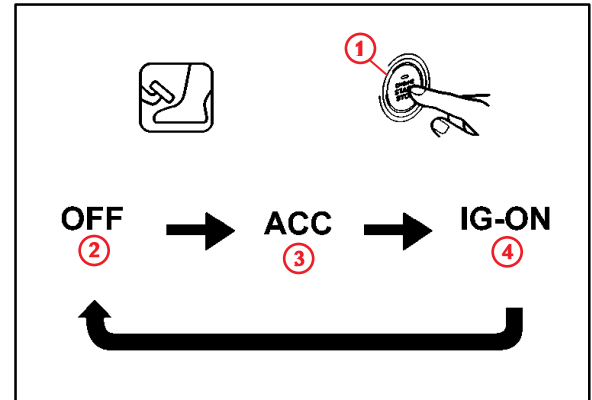
From the “OFF” mode:

- Press once. The power supply mode is in the “ACC” mode.
- Press twice. The power supply mode is in the “IG-ON” mode.
- Press three times. The power supply mode is in the “OFF” mode.

NOTE

If the “ENGINE START STOP” switch illuminator blinks amber, a system problem has been detected. Refer to the Repair Manual for diagnosis.

Figure 3.



1	ENGINE START STOP Switch
2	Light Off
3	Light On
4	Light On

B. Check the engine start/stop operation.

- (1) Make sure that the gear selector lever is in the “P” position.
- (2) When depressing the brake pedal, check that the green engine switch illuminator comes ON, and push the “ENGINE START STOP” switch to start the engine.
- (3) Push the switch again to stop the engine.

NOTE

When the “ENGINE START STOP” switch is turned OFF with the gear selector lever in a position other than “P,” the vehicle electrical system will be in the “ACC” mode. When the door is opened the Smart Key System Warning Buzzer will sound indicating that the electrical system is NOT “OFF” when exiting the vehicle. This may result in a discharged battery. Be sure to turn OFF the engine AFTER shifting the gear selector lever to the “P” position.

Checking Procedure:

- Shift the gear selector lever to the “P” position (or check that the gear selector lever is in the “P” position).
- Press the “ENGINE START STOP” switch once and check that the indicator light goes OFF.

5. Repeat steps 2 – 4 with each Smart Key.