

Smart Key Intermittent No Crank / No Start

Service Category Vehicle Interior

Section Theft Deterrent/Keyless Entry

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2005 – 2008	Avalon	
2007 – 2008	Camry, Camry HV	
2008	Highlander, Highlander HV, Land Cruiser	

TSB REVISION NOTICE

- **May 1, 2009 Rev1:**
 - **Warranty Information section has been updated.**

Any previous printed versions of this service bulletin should be discarded.

Introduction

Some customers may experience a “no crank” condition or a start and immediate engine stop condition when starting the engine using the “Push Start” switch. A new “Push Start” switch is now available to address this condition.

Parts Information

MODELS	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
Avalon/Camry (NAP)	89611-07010	Same	Switch, Push Start
Land Cruiser/Highlander	89611-52010	89611-52011	
Camry (JPP)	89611-52010		
Highlander HV	89611-33010	89611-06020	
Camry HV (CBU)			
Camry HV (NAP)			

Smart Key Intermittent No Crank / No Start

Production Change Information

This TSB applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

YEAR	MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
2005-2008	Avalon	NAP	4T1BK36B#8U293633
2008	Highlander	CBU	JTE#####82044202
	Highlander HV		
2008	Land Cruiser	Yoshiwara	JTMHY05J#84001114
		Tahara	JTMHY05J#85000755
2007-2008	Camry	CBU	JTNB#46K#83146332
2007-2008	Camry	SIA	4T4B#46K#8R047405
		TMMK Line 1	4T1B#46K#8U262779
		TMMK Line 2	4T1B#46K#8U792891
2007-2008	Camry HV	NAP	4T1BB46K#8U062329
		CBU	JTNBB46K#83047751

Warranty Information

OP CODE	DESCRIPTION	MODEL	TIME	OFF	T1	T2
830611	R & R Push Start/Power Switch	Avalon	0.5	89611-07010	17	41
		Camry (NAP)	0.2			
		Camry (CBU)/ Highlander	0.2	89611-52011		
		Land Cruiser	0.4			
		Highlander HV/ Camry HV	0.2	89611-06020		

APPLICABLE WARRANTY

- This repair is covered under the Toyota comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream*	ADE	TSPKG1	1
NOTE: Software version 4.11.000 or later is required.			

Smart Key Intermittent No Crank / No Start

Required Tools & Equipment (Continued)

* Essential SST.

NOTE

Additional TIS Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Plastic Pry Tool Set*	00002-06000-01	1

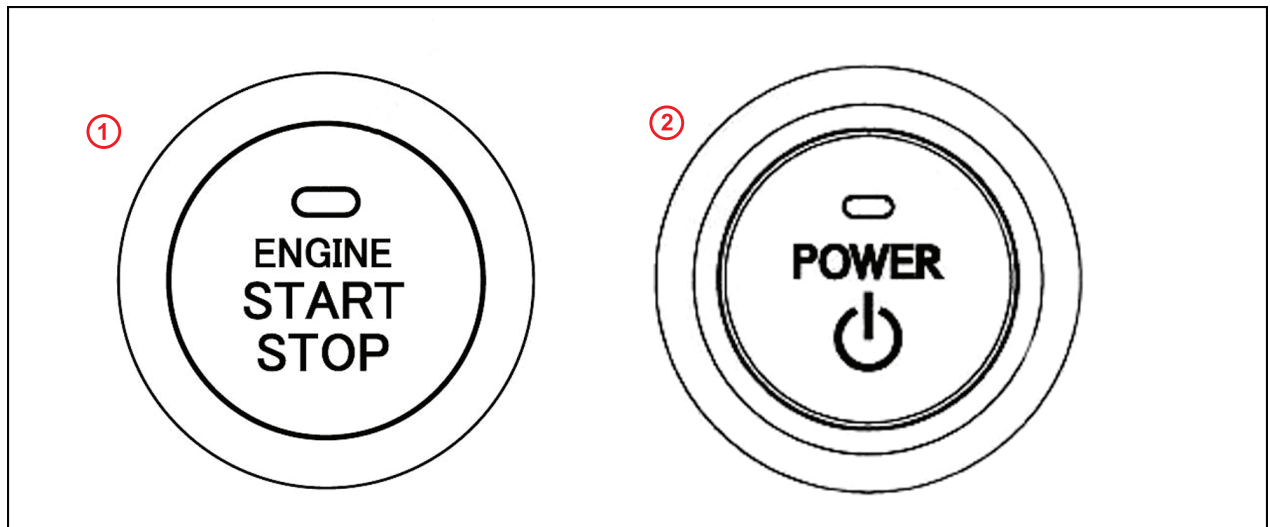
* Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

Repair Procedure

Figure 1.



1	Non-Hybrid
2	Hybrid

NOTE

The push start switch may also be referred to as the power switch when installed in Hybrid vehicles and the engine switch when installed in all other vehicles.

Smart Key Intermittent No Crank / No Start

Repair Procedure (Continued)

This TSB details the replacement of the “Push Start” switch on vehicles equipped with Smart Key with one of two specific concerns, both of which are intermittent issues that may occur only while starting the engine.

1. “No crank” and no start concern.
2. Engine cranks, starts and then immediately stops

Before considering replacement of the push start switch please verify the following conditions are normal.

1. Vehicle battery is fully charged
2. Key battery voltages are within specification.
3. No other repairs have been performed or parts replaced on the Smart Key system causing the system to become completely inoperative.
4. The M.I.L. (Check Engine Light) is off with the engine running. If the M.I.L. is on repair and clear any related codes before performing this TSB.

Detailed removal and installation instructions of the engine / power switch are found in the Technical Information System (TIS): including systems requiring initialization.

- 2005 Avalon:

Engine/Hybrid System/Starting & Charging/ Replacement: Engine Switch (2GR-FE) (W/Smart Key System) [Replacement](#)

- 2006 Avalon:

Engine/Hybrid System/Starting & Charging/ Replacement: Engine Switch (2GR-FE) (W/Smart Key System) [Removal/Installation](#)

- 2007 Avalon:

Engine/Hybrid System/Starting & Charging/ Replacement: Engine Switch (2GR-FE) (W/Smart Key System) [Removal/Installation](#)

- 2007 Camry:

Engine/Hybrid System-Starting-Engine Switch [Removal/Installation](#)

- 2008 Camry:

Engine/Hybrid System-Starting-Engine Switch [Removal/Installation](#)

- 2007 Camry HV:

Engine/Hybrid System-Starting-Engine Switch [Removal/Installation](#)

Smart Key Intermittent No Crank / No Start

Repair Procedure (Continued)

- 2008 Camry HV:
Engine/Hybrid System-Starting-Engine Switch [Removal/Installation](#)
- 2008 Highlander:
Engine/Hybrid System-Starting-Engine Switch [Removal/Installation](#)
- 2008 Highlander HV:
Engine/Hybrid System-Starting-Engine Switch [Removal/Installation](#)
- 2008 Land Cruiser:
Engine/Hybrid System-Starting-Engine Switch [Removal/Installation](#)

After replacing the "Push Start Switch" verify normal Smart Key operation.