

T-SB-0174-12

September 17, 2012

# ABS/VSC DTC C1247 - Stroke Sensor Detection Logic Update

 Service  
 Category Brake

Section Brake Control/Dynamic Control System Market USA

 Toyota Supports  
 ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2011	Camry HV	
2004 – 2009	Prius	

## Introduction

Some 2007 – 2011 model year Camry HV and 2004 – 2009 model year Prius vehicles' Brake systems may exhibit a MIL "ON" and brake warning lights (ABS/VSC) illuminated in the Instrument Panel with the Diagnostic Trouble Code (DTC) C1247 (Stroke Sensor Malfunction) stored in the ABS/VSC Electronic Control Unit (ECU). This DTC may set as a result of overly sensitive monitoring logic without any other ABS/VSC system issue. Follow the procedure in this bulletin to properly diagnose the system and, if necessary, replace the ABS/VSC ECU with an ECU containing updated monitoring logic.

## Production Change Information

This bulletin applies to the following vehicles:

- All 2004 – 2009 MY Prius vehicles.
- All Japan built 2007 – 2011 MY Camry HV vehicles.
- TMMK built 2007 – 2011 MY Camry HV vehicles produced **BEFORE** the Production Change Effective VIN shown below.

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Camry HV	TMMK	4T1BB3EK#BU140816

## Parts Information

MODEL	MODEL YEAR	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
Camry HV	2007–2009	89540-33390	Same	Computer Assy, Skid Control	1
	2010–2011	89540-33400	Same		1
Prius	2004	89540-47060	Same		1
	2005–2009	89540-47130	Same		1

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### Warranty Information

OP CODE	DESCRIPTION	TIME	MODEL	QFP	T1	T2
896011	R & R Skid Control Computer	2.1	Camry HV	89540-33390 89540-33400	8A	99
		2.0	Prius	89540-47060 89540-47130		

#### APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic 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 occurrence of the specified condition described in this bulletin.

### Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* or Techstream Lite  NOTE: Software version 7.20.041 or later is required.	ADE	TSPKG1 or TSLITEDLR01	1

\* Essential SST.

#### NOTE

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

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### Repair Procedure

1. Using Techstream, perform a Health Check and confirm that DTC C1247 is present in the ABS/VSC ECU.
2. Follow the diagnostics for this DTC.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

- 2007 Camry HV:  
*Brake – Brake Control/Dynamic Control System – “Brake Control: Electronically Controlled Brake System: C1247/47, C1346/71, C1392/48: Stroke Sensor Malfunction (to 10/2006) / (from 10/2006)”*
  - 2008 / 2009 / 2010 / 2011 Camry HV:  
*Brake – Brake Control/Dynamic Control System – “Brake Control: Electronically Controlled Brake System: C1247/47, C1346/71, C1392/48: Stroke Sensor Malfunction”*
  - 2004 / 2005 Prius:  
*Brake – Brake Control/Dynamic Control System – “Electronically Controlled Brake System: C1247/47, C1392/48 Un-correction of A Zero Point of the Stroke Sensor”*
  - 2006 / 2007 / 2008 / 2009 Prius:  
*Brake – Brake Control/Dynamic Control System – “Brake Control: Electronically Controlled Brake System: C1247/47, C1392/48: Stroke Sensor Malfunction”*
3. In the event that NO problem can be found for this DTC, replace the ABS/VSC ECU.

Refer to TIS, applicable model and model year Repair Manual:

- 2007 Camry HV:
  - *Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMMK made): Removal / Installation”*
  - *Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMC made): Removal / Installation”*
- 2008 Camry HV:
  - *Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMMK made): Removal / Installation”*
  - *Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMC made): Removal / Installation”*
- 2009 Camry HV:
  - *Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMMK made): Removal / Installation”*
  - *Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMC made): Removal / Installation”*

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### Repair Procedure (Continued)

- 2010 Camry HV:
    - Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMMK made): Removal / Installation”
    - Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMC made): Removal / Installation”
  - 2011 Camry HV:
    - Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMMK made): Removal / Installation”
    - Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU (for TMC made): Removal / Installation”
  - 2004 Prius:  
Brake – Brake Control/Dynamic Control System – “Skid Control ECU Assy: Replacement”
  - 2005 Prius:  
Brake – Brake Control/Dynamic Control System – “Skid Control ECU Assy: Replacement”
  - 2006 Prius:  
Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU: Removal / Installation”
  - 2007 Prius:  
Brake – Brake Control/Dynamic Control System: – “Brake Control: Skid Control ECU: Removal / Installation”
  - 2008 Prius:  
Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU: Removal / Installation”
  - 2009 Prius:  
Brake – Brake Control/Dynamic Control System – “Brake Control: Skid Control ECU: Removal / Installation”
4. Clear any stored DTCs.
  5. Disconnect Techstream.
  6. Test drive vehicle to confirm the condition has been corrected.