

T-SB-0012-14

February 20, 2014

MIL "ON" DTC P0A80 or P0A7F due to Dust or Debris in the HV Battery Cooling Fan

Service Category Engine/Hybrid System

Section Hybrid/Battery Control System

Market USA



Applicability

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

Introduction

Some 2007 – 2011 model year Camry HV vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0A80 or P0A7F stored due to dust or debris build-up in the HV Battery Cooling Fan. Use the following repair procedure to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EL1319	Clean HV Battery Cooling Fan, Replace HV Battery Assembly, and Install HV Battery Cooling Fan Intake Filter	2.0	G9510-33010	8A	99

APPLICABLE WARRANTY

- This repair is covered under the Toyota Hybrid System Warranty. This warranty is in effect for 96 months or 100,000 miles, whichever occurs first, from the vehicle's in-service date.
- For California specification Camry HV vehicles sold, registered, and operated in California, Connecticut, Maine, Maryland (starting with '11 MY), Massachusetts, New Hampshire ('07 MY – '09 MY), New Jersey, New Mexico ('10 MY – '11 MY), New York, Oregon, Rhode Island, and Vermont, this repair is covered under the California Emission Warranty, which is in effect for 120 months or 150,000 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.

Parts Information

PART NUMBER	PART NAME	QTY
G92DH-33010	Filter, HV Battery Intake, No. 1	1
G9510-33010	Battery Assembly, HV Supply	1

MIL "ON" DTC P0A80 or P0A7F due to Dust or Debris in the HV Battery Cooling Fan

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Electrical Insulating Gloves*	<u>00002-03100-S</u> (Small)	1
	<u>00002-03200-M</u> (Medium)	
	<u>00002-03300-L</u> (Large)	

CAUTION

Always inspect Electrical Insulating Gloves before use for cracks, ruptures, tears, pinholes, or damage. Do NOT wear if damaged.

NOTE

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

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream		TSPKG1	
Techstream Lite		TSLITEDLR01	

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 9.00.025 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

MIL "ON" DTC P0A80 or P0A7F due to Dust or Debris in the HV Battery Cooling Fan

Repair Procedure

1. Inspect the HV Battery Cooling Fan for dust or debris build-up.

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

- [2007 \(03/2006 - 10/2006\)](#) / [2007 \(10/2006 -\)](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) Camry HV: *Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid Battery Control: Battery Blower: Removal”*

Is the HV Battery Cooling Fan clogged with dust or debris build-up? Refer to Figure 1 for an example of a clogged cooling fan.

Figure 1.



- **YES** – Proceed to step 2.
- **NO** – This bulletin does NOT apply. Install filter screen assembly and troubleshoot the vehicle using the applicable Repair Manual procedure.

Refer to TIS, applicable model year Camry HV Repair Manual:

P0A80:

- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) Camry HV: *Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid Battery Control: Hybrid Battery System: P0A80-123; Replace Hybrid Battery Pack”*

P0A7F:

- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) Camry HV: *Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid Battery Control: Hybrid Battery System: P0A7F-123; Hybrid Battery Pack Deterioration”*

MIL "ON" DTC P0A80 or P0A7F due to Dust or Debris in the HV Battery Cooling Fan

Repair Procedure (Continued)

- Using vacuum, and compressed air, if necessary, clean any dust, lint, or debris buildup from the HV Battery Cooling Fan blades, module, and ducts.

NOTICE

Do **NOT** allow the cooling fan to spin freely during cleaning. This may damage the cooling fan motor.

- Replace the HV Battery Assembly.

Refer to TIS, applicable model year Camry HV Repair Manual:

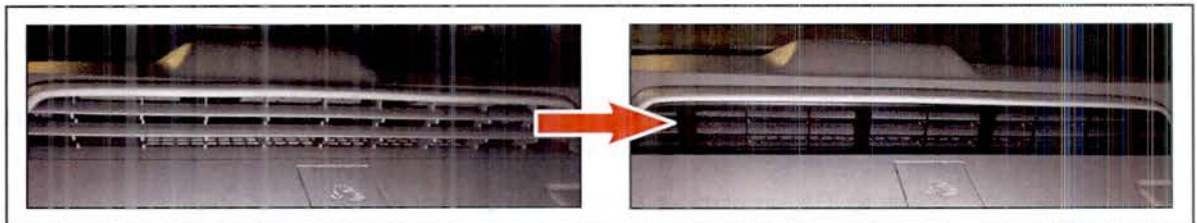
- [2007 \(03/2006 - 10/2006\)](#) / [2007 \(10/2006 -\)](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) Camry HV: Engine/Hybrid System – Hybrid/Battery Control System – *“Hybrid Battery Control: HV Battery: Removal”*
- [2007 \(03/2006 - 10/2006\)](#) / [2007 \(10/2006 -\)](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) Camry HV: Engine/Hybrid System – Hybrid/Battery Control System – *“Hybrid Battery Control: HV Battery: Installation”*

- Install the HV Battery Cooling Fan Intake Filter as shown.

NOTE

The filter should be cleaned when dust begins to appear on the surface.

Figure 2.



- Clear any DTCs that have set during the Repair Procedure and test drive the vehicle to confirm normal operation.
- For severe usage vehicles, refer to Service Bulletin [T-SB-0182-13](#), *“HV Battery Cooling Fan Maintenance for Severe Usage Vehicles,”* for additional HV Battery Cooling Fan maintenance recommendations.

HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Service Category Engine/Hybrid System

Section Hybrid/Battery Control System

Market USA

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010 – 2013	Prius	

REVISION NOTICE

February 20, 2014 Rev1:

- Applicability has been updated to include 2013 model year Prius vehicles.

Any previous printed versions of this bulletin should be discarded.

Introduction

For vehicles that are used under certain severe operating conditions, the HV Battery Cooling Fan may experience an excessive buildup of dust, lint, or other debris that can reduce the efficiency of the HV Battery Cooling System. HV Battery Cooling Fan maintenance and cleaning should be performed to address this condition.

NOTE

The following procedure should be completed every 25,000 miles OR anytime the HV Battery Assembly is replaced.

Warranty Information

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

HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Repair Procedure

1. Is the vehicle subject to all of the operating conditions detailed below?

- (1) The vehicle is used for over 15 hours per day.
- (2) The vehicle is used over 6 days per week.
- (3) The right rear seat is used over 50 times per day.

YES — Go to step 2.

NO — This bulletin does NOT apply.

2. Remove the HV Battery Cooling Fan Assembly.

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

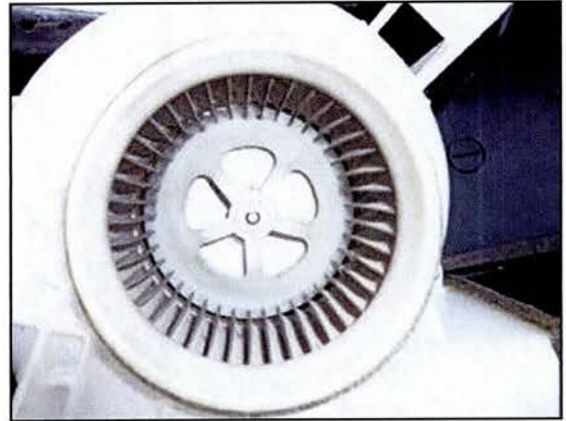
- [2010](#) / [2011](#) / [2012](#) / [2013](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”

3. Using vacuum, and compressed air, if necessary, clean any dust, lint, or debris buildup from the HV Battery Cooling Fan blades, module, and ducts.

Figure 1. HV Battery Cooling Fan BEFORE Cleaning



Figure 2. HV Battery Cooling Fan AFTER Cleaning



NOTICE

- Do NOT attempt to clean the HV Battery Cooling Fan while it is installed in the vehicle. Doing so may cause dust or debris to enter the HV Battery Case.
- Failure to secure the fan blades while cleaning can result in electronic circuit failure due to overturning.

HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Repair Procedure (Continued)

4. Re-install the HV Battery Cooling Fan Assembly and verify normal operation.

Refer to TIS, applicable model year Prius Repair Manual:

- 2010 / 2011 / 2012 / 2013 Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Installation”

5. Repeat this procedure as normal maintenance every 25,000 miles.

T-SB-0013-14

February 26, 2014

MIL "ON" DTC P0A80 due to Dust or Debris in HV Battery Cooling Fan

Service Category Engine/Hybrid System

Section Hybrid/Battery Control System

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2013	Prius	

Introduction

Some 2013 model year Prius vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0A80 or stored due to dust or debris buildup in the HV Battery Cooling Fan. Use the following repair procedure to address this condition.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VIN shown below.

MODEL	PRODUCTION CHANGE EFFECTIVE VIN
Prius	JTDKN3DU#D0356257

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EL1400	Clean HV Battery Cooling Fan, Replace HV Battery Assembly, and Install HV Battery Cooling Fan Intake Filter	1.8	G9510-76010	8A	99

APPLICABLE WARRANTY

- This repair is covered under the Toyota Hybrid System Warranty. This warranty is in effect for 96 months or 100,000 miles, whichever occurs first, from the vehicle's in-service date.
- For California specification Prius vehicles sold, registered, and operated in California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Rhode Island, and Vermont, this repair is covered under the California Emission Warranty, which is in effect for 120 months or 150,000 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.

MIL "ON" DTC P0A80 due to Dust or Debris in HV Battery Cooling Fan

Parts Information

PART NUMBER	PART NAME	QTY
G92DH-47010	Filter, HV Battery Intake, No. 1	1
G9510-76010	Battery Assy, HV Supply	1

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream		TSPKG1	
Techstream Lite		TSLITEDLR01	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 9.00.025 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Electrical Insulating Gloves*	00002-03100-S (Small)	1
	00002-03200-M (Medium)	
	00002-03300-L (Large)	

CAUTION

Always inspect Electrical Insulating Gloves before use for cracks, ruptures, tears, pinholes, or damage. Do NOT wear if damaged.

NOTE

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

* Essential SST.

MIL "ON" DTC P0A80 due to Dust or Debris in HV Battery Cooling Fan

Repair Procedure

1. Inspect the HV Battery Cooling Fan for dust or debris buildup.

Refer to the Technical Information System (TIS), 2013 Prius Repair Manual:

- *Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”*

Is the HV Battery Cooling Fan clogged with dust or debris buildup? Refer to Figure 1 for an example of a clogged cooling fan.

- **YES** — Proceed to step 2.
- **NO** — This bulletin does NOT apply. Troubleshoot the vehicle using the Repair Manual procedure.

Refer to TIS, 2013 Prius Repair Manual:

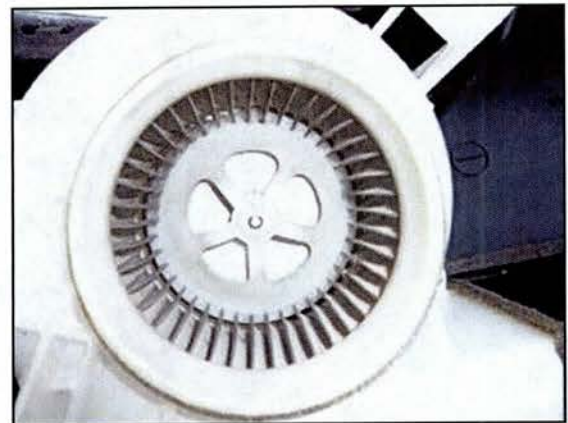
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Hybrid Battery System: P0A80-123: Replace Hybrid Battery Pack”

2. Using vacuum, and compressed air, if necessary, clean any dust, lint, or debris buildup from the HV Battery Cooling Fan blades, module, and ducts.

Figure 1. HV Battery Cooling Fan BEFORE Cleaning



Figure 2. HV Battery Cooling Fan AFTER Cleaning



NOTICE

- Do NOT attempt to clean the HV Battery Cooling Fan while it is installed in the vehicle. Doing so may cause dust or debris to enter the HV Battery Case.
- Failure to secure the fan blades while cleaning can result in electronic circuit failure due to overturning.

MIL "ON" DTC P0A80 due to Dust or Debris in HV Battery Cooling Fan

Repair Procedure (Continued)

3. Replace the HV Battery Assembly.

Refer to TIS, 2013 Prius Repair Manual:

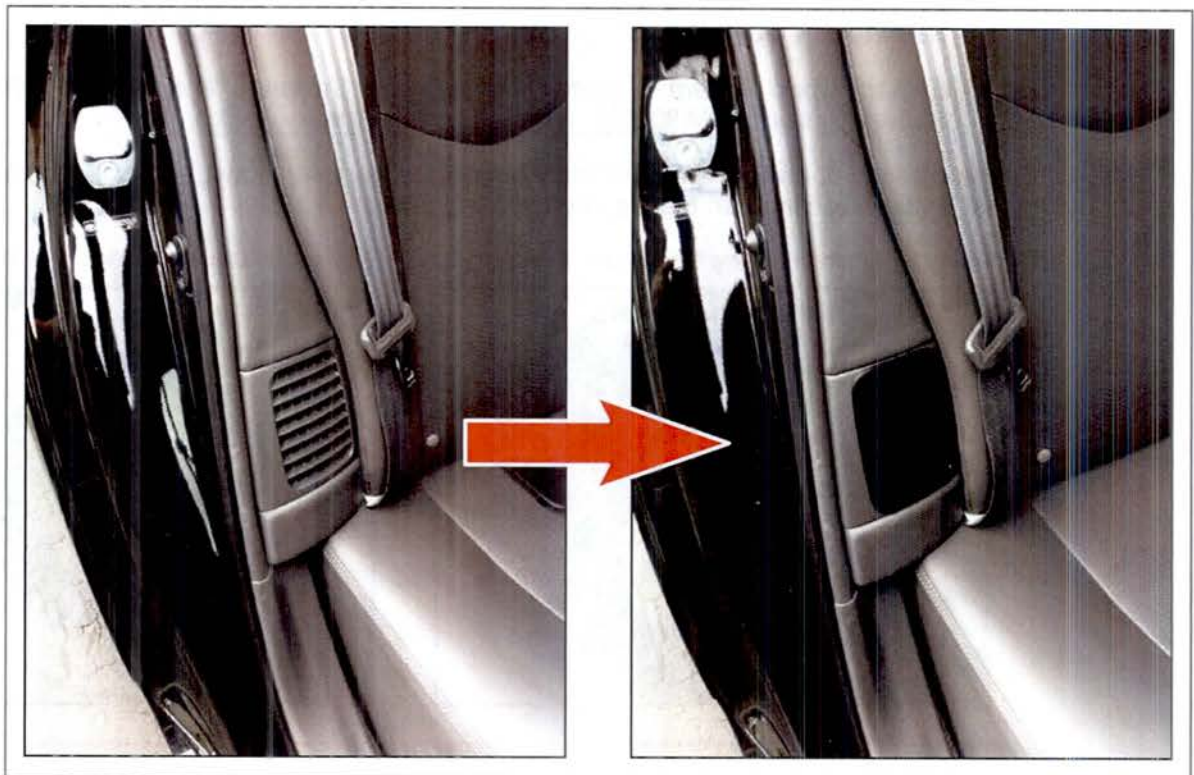
- *Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: HV Battery: Removal / Installation”*

4. Install the HV Battery Cooling Fan Intake Filter as shown.

NOTE

The filter should be cleaned when dust begins to appear on the surface.

Figure 3.



5. Clear any DTCs that have set during the repair procedure and test drive the vehicle to confirm normal operation.
6. For severe usage vehicles, refer to Service Bulletin [T-SB-0198-11](#), “HV Battery Cooling Fan Maintenance for Severe Usage Vehicles,” for additional HV Battery Cooling Fan maintenance recommendations.

HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Service Category Engine/Hybrid System

Section Hybrid/Battery Control System

Market USA

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2012 – 2014	Camry HV	

REVISION NOTICE

February 27, 2014 Rev1:

- Applicability has been updated to include 2013 and 2014 model year Camry HV vehicles.

Any previous printed versions of this bulletin should be discarded.

Introduction

For vehicles that are used under certain severe operating conditions, the HV Battery Cooling Fan may exhibit an excessive buildup of dust, lint, or other debris that can reduce the efficiency of the HV Battery Cooling System. HV Battery Cooling Fan maintenance and cleaning should be performed to address this condition.

NOTE

The following procedure should be completed every 25,000 miles OR anytime the HV Battery Assembly is replaced.

Warranty Information

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

HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Repair Procedure

1. Is the vehicle subject to all of the operating conditions detailed below?

(1) The vehicle is used for over 15 hours per day.

(2) The vehicle is used over 6 days per week.

(3) The rear seat is used over 50 times per day.

YES — Go to step 2.

NO — This bulletin does NOT apply.

2. Remove the HV Battery Cooling Fan Assembly.

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

- 2012 / 2013 / 2014 (8/2013 – 12/2013) / 2014 (12/2013 –) Camry HV: *Engine/Hybrid System – Hybrid/Battery Control System – "Hybrid/Battery Control: Battery Blower: Removal"*

3. Using vacuum, and compressed air, if necessary, clean any dust, lint, or debris buildup from the HV Battery Cooling Fan blades, module, and ducts.

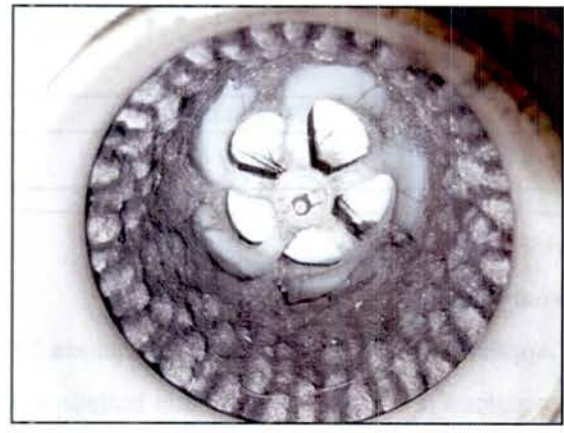


Figure 1. HV Battery Cooling Fan BEFORE Cleaning

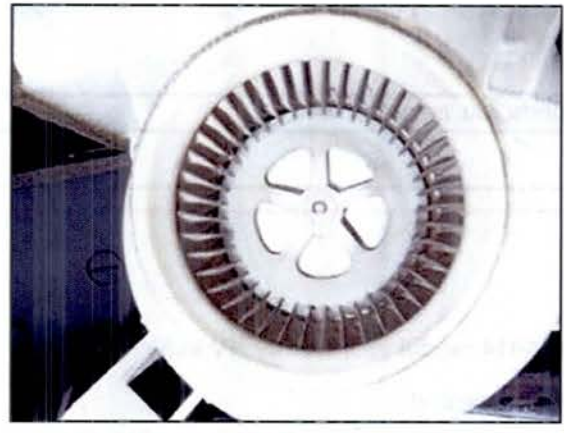


Figure 2. HV Battery Cooling Fan AFTER Cleaning

NOTICE

- Do NOT attempt to clean the HV Battery Cooling Fan while it is installed in the vehicle. Doing so may cause dust or debris to enter the HV Battery Case.
- Failure to secure the fan blades while cleaning can result in electronic circuit failure due to overturning.

HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Repair Procedure (Continued)

4. Re-install the HV Battery Cooling Fan Assembly and verify normal operation.

Refer to TIS, applicable model year Camry HV Repair Manual:

- 2012 / 2013 / 2014 (8/2013 – 12/2013) / 2014 (12/2013 –) Camry HV:
*Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control:
Battery Blower: Installation”*

5. Repeat this procedure as normal maintenance every 25,000 miles.