

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 – 2017	Camry HV, Prius C, Prius V	
2006 – 2017	Highlander HV	
2010 – 2016	Prius	
2016 – 2017	RAV4 HV	

REVISION NOTICE

January 05, 2018 Rev1:

- **Applicability** has been updated to include 2012 – 2017 Camry HV and Prius C, 2015 – 2017 Prius V, 2006 – 2017 Highlander HV, 2010 – 2016 Prius, and 2016 – 2017 RAV4 HV model year vehicles.
- **The Repair Procedure** section has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2006 – 2017 Highlander HV, 2010 – 2016 Prius, 2012 – 2017 Camry HV, Prius C and Prius V, and 2016 – 2017 RAV4 HV model year vehicles used under certain severe operating conditions may exhibit an excessive buildup of dust, lint, or other debris in the HV battery cooling fan, which can reduce the efficiency of the HV battery cooling system. Follow the Repair Procedure in this bulletin to address this condition.

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?
 - A. The vehicle is used for over 15 hours per day.
 - B. The vehicle is used over 6 days per week.
 - C. The rear or second seat is used over 50 times per day.
 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
2. Remove the HV battery cooling fan assembly.

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

- [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Camry HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”
- [2006](#) / [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) / [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Highlander HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”
- [2010](#) / [2011](#) / [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”
- [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Prius C:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”
- [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Prius V:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”
- [2016](#) / [2017](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Removal”

HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Repair Procedure (Continued)

- Using a vacuum and compressed air, clean any dust, lint, or debris buildup from the HV battery cooling fan blades, module, air ducts, and internal/external filter of the HV battery cooling system. Secure the fan blades to prevent turning while cleaning.

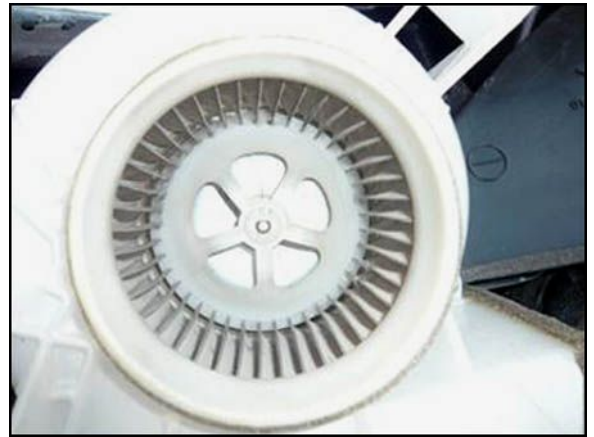
NOTICE

- 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.

Figure 1. HV Battery Cooling Fan Before Cleaning



Figure 2. HV Battery Cooling Fan After Cleaning



HV Battery Cooling Fan Maintenance for Severe Usage Vehicles

Repair Procedure (Continued)

4. Reinstall the HV battery cooling fan assembly.

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

- [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Camry HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Installation”
- [2006](#) / [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) / [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Highlander HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Installation”
- [2010](#) / [2011](#) / [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Installation”
- [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Prius C:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Installation”
- [2012](#) / [2013](#) / [2014](#) / [2015](#) / [2016](#) / [2017](#) Prius V:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Installation”
- [2016](#) / [2017](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid/Battery Control: Battery Blower: Installation”

5. Verify normal operation of the HV battery cooling fan assembly.
6. Repeat this procedure as normal maintenance every 5,000 miles.