OMB Control No.: 2127-0004

NR

Part 573 Safety Recall Report

18V-684

Manufacturer Name :Toyota Motor Engineering & ManufacturingSubmission Date :OCT 04, 2018NHTSA Recall No. :18V-684Manufacturer Recall No. :JOV



Number of potentially involved : 807,329

Estimated percentage with defect :

Population :

Manufacturer Information :

Manufacturer Name :Toyota Motor Engineering &
Manufacturing
6565 Headquarters Drive
Plano TX 75024Company phone :1-800-331-4331

Vehicle Information :

Vehicle 1 Vehicle Type Body Style Power Train	:	Toyota Prius			
Body Style	:				
Power Train	· ND				
	. IN R				
Descriptive Information	 NOTE: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Other Toyota or Lexus vehicles do not use the same hybrid control ECU and software as the involved vehicles or had improved software as original equipment to reduce thermal stress to certain hybrid inverter components as described in the recalls 14V-053 and 15V-449. Toyota is unable to provide an estimate of the percentage of vehicles to actually 				
Production Dates	contain the transistor v hybrid syst operating c	e defect. Whet within the inve- tem, creating a conditions.	her the issue in each case wi erter assembly and subseque in unreasonable risk to safet	ll lead to damage of the ently lead to a shutdown of the	
VIN Range 1		NR	End: NR	Not sequential	
Vehicle 2 Vehicle Type Body Style Power Train Descriptive Information	: NR NOTE: (1) period, not (2) Oth	all vehicles in her Toyota or I	the involved vehicles are wi this range were sold in the Lexus vehicles do not use the	-	

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(Foyota is unable to provide an estimate of contain the defect. Whether the issue in ransistor within the inverter assembly a hybrid system, creating an unreasonable operating conditions. AUG 22, 2011 - JUN 30, 2014	each case will lead to damage of th and subsequently lead to a shutdow	e vn of the
VIN Range 1: Be		NR Not s	equential
Description of Defect :			
FMVSS 1	 The subject vehicles contain software Module (IPM) within the inverter ass system. Due to certain characteristic converter in the IPM, higher thermal in the IPM under high-load driving su driving. If this occurs, it could damag various warning lights and display a In limited instances, the motor/gener specific transistor within the IPM fail driving condition, such as during har abnormally high voltage to be general software and IPM circuit design. If the abnormally high voltage is generated system could shut down instead of er provide reduced motive power and a distances. In this condition, where the entering a failsafe driving mode, pow affected. However, a hybrid system t mode could result in the vehicle losin speeds, increasing the risk of a crash. 	sembly, a part of the vehicle's hybrid s of the software used to control the stress could occur in specific trans- uch as accelerating during highway ge those transistors over time, illum warning message on the instrument rator ECU could reset. In addition, is in a certain way during a high-load d acceleration, there is a possibility ated that could exceed a certain limit ne motor/generator ECU resets or t l, there is the possibility that the hyp ntering a failsafe driving mode that llow the vehicle to be driven for cer- ne hybrid system shuts down instead yer steering and braking will not be that shuts down without entering a ng motive power while driving at hi	d e boost istors ninating at panel. if a d for an it in the his brid would rtain ad of failsafe
FMVSS 2 Description of the Safety Risk		It the hybrid system could shut down mode that would provide reduced reduced reduced reduced reduced reduced reduced for certain distances. In this shuts down instead of entering a fai aking will not be affected. However out entering a failsafe mode could reduced	notive lsafe r, a esult
Description of the Cause			
Identification of Any Warnin	S INT		

Supplier Identification :

Component Manufacturer

Name : Denso Corporation Address : 1-1 Showa-cho Kariya-city FOREIGN STATES 448-8661 Country : Japan

Chronology:

Please see the attached Part 573 Defect Information Report for the full chronology.

Description of Remedy :

Description of Remedy Program :	To address the safety defect, all known owners of the subject vehicles will be notified by first class mail to return their vehicles to a Toyota dealer to have the software updated for the motor/generator control ECU and the hybrid control ECU, as necessary.
	To support increased customer satisfaction, as a separate Consumer Support Program previously initiated, the dealer will repair or replace the inverter assembly (depending on the failure diagnosis) if an owner experiences a hybrid inverter component failure related to the conditions described above, at no charge (up to 15 years from the date of first use of the vehicle with no mileage restrictions). In addition, the new software for the hybrid control ECUs will support a further enhancement to the failsafe driving modes to provide for increased available speed and range under more circumstances in the event of a failure requiring failsafe driving.
	The owner letter will instruct vehicle owners who have paid to have this condition remedied prior to this campaign to seek reimbursement pursuant to Toyota's General Reimbursement Plan.
How Remedy Component Differs from Recalled Component :	Please see the attached Part 573 Defect Information Report.
Identify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule : Notifications to owners will be sent by December 3, 2018. A copy of the draft owner notification will be submitted as soon as it is available.

The information contained in this report was submitted pursuant to 49 CFR §573

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	Notifications to distributors/dealers will be sent on October 5, 2018. Copies of dealer communications will be submitted as they are issued.
Planned Dealer Notification Date :	
Planned Owner Notification Date :	OCT 22, 2018 - DEC 03, 2018

* NR - Not Reported

The information contained in this report was submitted pursuant to 49 CFR §573