

**Part 573 Safety Recall Report****15V-689****Manufacturer Name :** Toyota Motor Engineering & Manufacturing**Submission Date :** NOV 30,2015**NHTSA Recall No. :** 15V-689**Manufacturer Recall No. :** COM**Manufacturer Information :**

Manufacturer Name : Toyota Motor Engineering &amp; Manufact

Address : 19001 South Western Avenue

Torrance CA 90501

Company phone : 1-800-331-4331

**Population :**

Number of potentially involved : 1,814,284

Estimated percentage with defect : 0

**Vehicle Information :**

Vehicle : 2009-2011 Toyota Tundra

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : JAN 05, 2009 - AUG 31, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2009-2011 Toyota Sequoia

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : JAN 06, 2009 - AUG 31, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2008-2011 Toyota Highlander

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : AUG 01, 2008 - AUG 31, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2008-2011 Toyota Highlander HV

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : AUG 01, 2008 - AUG 31, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2007-2007 Toyota Camry

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : OCT 01, 2005 - AUG 31, 2006

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2009-2009 Toyota Camry HV

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : AUG 01, 2008 - MAR 18, 2009

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2006-2011 Toyota RAV4

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : JUL 28, 2005 - AUG 31, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2009-2011 Toyota Corolla

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : AUG 01, 2007 - AUG 31, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2009-2011 Toyota Corolla Matrix

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : JAN 12, 2009 - AUG 31, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2006-2010 Toyota Yaris

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : JUL 12, 2005 - JUN 30, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2009-2011 Toyota Scion xB

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : AUG 01, 2008 - JUN 30, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2009-2010 Toyota Scion xD

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : AUG 01, 2008 - JUN 30, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2009-2010 Pontiac Vibe

Vehicle Type :

Body Style :

Power Train : NR

**Descriptive Information :** Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a

different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : JAN 12, 2009 - JAN 05, 2010

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2009-2009 Toyota Camry

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : AUG 01, 2008 - MAR 18, 2009

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2007-2007 Toyota Camry HV

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Note: (1) Only the involved vehicles equipped with a Power Window Master Switch (PWMS) containing a sliding electrical contact module which was manufactured with a spray-type grease application at the above-mentioned supplier during the above production periods are included in this recall.

(2) The same models, which have the same sliding electrical contact module with a different type of grease application and which were manufactured between the above-mentioned two periods are involved in recall 12V-491 for a similar condition.

(3) Other Toyota and Lexus vehicles are equipped with PWMS's that either do not

contain sliding electrical contact modules, contain sliding electrical contact modules that are of a different design or are manufactured at a different supplier.

Production Dates : OCT 01, 2005 - AUG 31, 2006

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

**Description of Defect :**

Description of the Defect : The subject vehicles are equipped with a driver's side Power Window Master Switch (PWMS) containing sliding electrical contact modules. These modules are lubricated with a sprayed-on grease that may have been applied inconsistently during the manufacturing process, not providing sufficient coverage. During normal operation, debris caused by wear from the electrical contact points can accumulate between the terminals where the grease was insufficiently applied, and a short circuit could form between the contact points by the debris and conductive moisture that may enter the module. If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If a short circuit occurs, the switch assembly may overheat and melt. A melting switch may produce smoking and, potentially, lead to a fire.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

**Supplier Identification :**

**Component Manufacturer**

Name : TRAM, Inc.

Address : 47200 Port Street

Plymouth MICHIGAN 28170

Country : United States

**Chronology :**

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

**Description of Remedy :**

Description of Remedy Program : Description of Corrective Repair Action:

All known owners of the subject vehicles will be notified by first class mail to return their vehicles to a Toyota or a GM dealer to inspect the PWMS and, if abnormality is found, the PWMS circuit board will be replaced with an



improved one. If no abnormality is found, the dealer will apply specialized grease that inhibits heat build-up.

Reimbursement Plan for pre-notification remedies for Toyota vehicles:  
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.

Reimbursement Plan for pre-notification remedies for General Motors vehicles (Pontiac Vibe):  
Pursuant to 577.11(e), General Motors will provide reimbursement to owners for repairs completed on or before ten days after GM mails owner letters, pursuant to the plan submitted on May 20, 2015.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

**Recall Schedule :**

Description of Recall Schedule : Interim notifications to owners of Toyota RAV4, Tundra, and Sequoia models will occur by December 20, 2015. These owners will receive a subsequent remedy owner letter in the first quarter of 2016.

Remedy notifications to owners of Toyota Yaris, Camry, Camry Hybrid, Scion xD, Scion xB, Highlander, Highlander Hybrid, Corolla, and Matrix models will occur by December 20, 2015. A copy of the draft owner notification letter(s) will be submitted as soon as available. General Motors will provide its schedule separately.

Distributor/Dealer Notification Schedule:

Notifications to distributors/dealers was sent on October 20, 2015. Copies of dealer communications will be submitted as they are issued.

Planned Dealer Notification Date : OCT 21, 2015 - OCT 21, 2015

Planned Owner Notification Date : DEC 20, 2015 - DEC 20, 2015

\* NR - Not Reported