

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Service Category Vehicle Interior

Market USA and Mexico

Section Meter/Gauge/Display

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019 - 2022	Avalon HV	
2018 - 2023	Camry HV	
2022	Corolla HV	
2023	Crown, Sequoia HV	
2020 - 2023	Highlander HV	
2021 - 2023	Mirai, Sienna HV, Venza HV	
2017 - 2022	Prius Prime	
2016 - 2022	Prius	
2019 - 2023	RAV4 HV	
2021 - 2022	RAV4 Prime	
2022 - 2023	Tundra HV	

REVISION NOTICE

November 17, 2023 Rev1:

- The Required Tools & Equipment section has been updated.
- Any previous printed versions of this bulletin should be discarded.

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Introduction

Some 2016 – 2023 model year Toyota vehicles may exhibit a hybrid system warning lamp occurring in below-freezing temperatures (below 32°F or 0°C). After performing a Health Check, one or both of the following Diagnostic Trouble Codes (DTCs) may be present:

- P1C8449 – (High Voltage Power Resource Circuit Short during Ready ON)
- P300449 – (High Voltage Power Resource Circuit Short during Pre-Charge)

Follow the Repair Procedure in this bulletin to address this condition.

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Table of Contents

- [Production Change Information](#)4
- [Warranty Information](#)7
 - [For USA Market](#).....7
 - [For Mexico Market](#)9
- [Parts Information](#)10
 - [For USA and Mexico Markets](#).....10
- [Required Tools & Equipment](#)11
- [Repair Procedure](#)12

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Production Change Information

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

MODEL	PLANT	DRIVETRAIN	BATTERY TYPE	PRODUCTION CHANGE EFFECTIVE VIN
Avalon HV	TMMK	2WD	Li-ion	4T1AA1AB#NU015644
				4T1EA1AB#NU015935
				4T1#A1AB#NU015937
Camry HV	TMMK (line 1)	2WD	Ni-MH	4T1#31AK#PU059520
	TMMK (Line 2)			4T1#31AK#PU619648
	TMMK			4T1B21HK#PU020276
Corolla HV	Takaoka	2WD	Li-ion	JTDEAMDE8NJ040666
				JTDBARDE2NJ040680
				JTDBAMDE1NJ040690
Crown	Tsutsumi	AWD	Ni-MH	JTDAAAAF#P3002952
Highlander HV	TMMI (Line 1)	2WD		JTDFAAAF#P3001216
		AWD		5TD#ARAH#PS021955
	TMMI (Line 2)	2WD		5TD#BRCH#PS130283
		AWD		5TD#ARAH#PS527352
5TD#BRCH#PS593492				
Mirai	Motomachi	2WD	Li-ion	JTDAAAAA#PA310008
Prius	Tsutsumi	2WD	Li-ion	JTDKA#FU#N3167037
		AWD	Ni-MH	JTDL9#FU#N3035266
Prius Prime		2WD	Li-ion	JTDKA#FP#N3208831

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Production Change Information (continued)

MODEL	PLANT	DRIVETRAIN	BATTERY TYPE	PRODUCTION CHANGE EFFECTIVE VIN	
RAV4 HV	TMMK	AWD	Ni-MH	4T3#WRFV#PU101497	
			Li-ion	4T3#6RFV#PU130419	
	TMMC		Ni-MH	2T3#WRFV#PW169155	
	Takaoka		Li-ion	JTMRWRFV6PJ056266	
			Li-ion	JTMD6RFV4PJ026838	
			Li-ion	JTMB6RFV1PJ026836	
			Li-ion	JTME6RFV3PJ026625	
			Li-ion	JTM16RFV2PJ026842	
	TICO (Line 26)		Ni-MH	JTMRWRFV5PD573895	
			Ni-MH	JTMLWRFV0PD573891	
			Ni-MH	JTMMWRFV0PD573930	
			Li-ion	JTMD6RFV1PD540659	
			Li-ion	JTMB6RFVXPD540635	
	TICO (Line 27)		Li-ion	JTME6RFV8PD540632	
			Li-ion	JTM16RFV0PD540638	
			Ni-MH	JTMRWRFV6PD176888	
			Ni-MH	JTMLWRFV8PD177112	
			Ni-MH	JTMMWRFV1PD176971	
	RAV4 Prime		TICO	Li-ion	JTMD6RFV3PD089458
				Li-ion	JTMB6RFV9PD089343
Li-ion		JTM16RFV0PD089324			
Li-ion		JTMCB3FV2ND080784			
Li-ion		JTMAB3FV6ND080620			
Li-ion		JTMEB3FV3ND080625			
Li-ion		JTMFB3FV0ND083258			
Li-ion	JTMGB3FV9ND080654				
Li-ion	JTMGB3FV1ND083273				

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Production Change Information (continued)

MODEL	PLANT	DRIVETRAIN	BATTERY TYPE	PRODUCTION CHANGE EFFECTIVE VIN	
Sequoia HV	TMMTX	2WD	Ni-MH	7SVAAAAA#PX002136	
		4WD		7SVAAABA#PX016087	
Sienna HV	TMMI	2WD		5TD#RKEC#PS164578	
		AWD		5TD#SKFC#PS092709	
Tundra HV	TMMTX	2WD		5TF#C5AB#PX002697	
				5TF#C5BC#PX001180	
		4WD		5TF#C5DB#PX034074	
				5TF#C5EC#PX003943	
Venza HV	Takaoka	AWD		Li-ion	JTEAAAAH4PJ126924
					JTEAAAAH5PJ126866
			JTEAAAAH6PJ126861		
			JTEAAAAH5PJ127144		
			JTEAAAAH0PJ126905		
			JTEAAAAH1PJ126993		

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Warranty Information

For USA Market

OP CODE	DESCRIPTION	MODEL	TIME	OFF	T1	T2
EL2309	R & R Hybrid Vehicle Relay Assembly	Avalon Hybrid	0.9	G92Z0-#####*	8A	02
		Camry Hybrid	0.9			
		Corolla Hybrid	1.0			
		Mirai	3.1			
		Prius	1.5			
		Prius Prime	2.0			
		RAV4 Hybrid w/ VDS #6RFV	0.8			
		RAV4 Hybrid w/ VDS #WRFV	1.0			
		Venza Hybrid	0.8			

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

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.
- For 2018 – 2019 model year Camry Hybrid vehicles equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty — California Emission Short-Term Defect Warranty is in effect for 3 years or 50,000 miles from the vehicle's in-service date, whichever occurs first. (Please reference Policy 4.7, and/or the Owner's Warranty & Maintenance Guide for additional information)
- For 2019 – 2022 model year Avalon Hybrid, 2020 – 2023 model year Camry Hybrid, 2022 model year Corolla Hybrid, 2019 – 2023 model year RAV4 Hybrid, and 2021 – 2023 model year Venza Hybrid vehicles equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty — California Emission Long-Term Defect Warranty is in effect for 7 years or 70,000 miles from the vehicle's in-service date, whichever occurs first. (Please reference Policy 4.7, and/or the Owner's Warranty & Maintenance Guide for additional information)
- For 2016 – 2017 model year Prius and 2017 – 2022 model year Prius Prime vehicles equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty — Partial Zero Emission Vehicle (PZEV) Emission Warranty Coverage is in effect for 15 years or 150,000 miles, from the vehicle's in-service date, whichever occurs first. (Please reference Warranty Policy Bulletin POL14-09, Warranty Policy 4.7, and/or the Owner's Warranty & Maintenance Guide for additional information)

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Warranty Information (continued)

For USA Market (continued)

OP CODE	DESCRIPTION	MODEL	TIME	OFF	T1	T2
EL2311	R & R Hybrid Vehicle Relay Assembly	Crown w/ VDS AAAAF	1.0	G3850-#####* G3860-#####*	8A	02
		Crown w/ VDS AFAAF	1.1			
		Highlander Hybrid	1.0			
		RAV4 Prime	3.5			
		Sequoia Hybrid	2.5			
		Sienna Hybrid	1.4			
		Tundra Hybrid	1.4			

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 60 months or 60,000 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.
- 2020 – 2023 model year Highlander HV, 2023 model year Sequoia HV, and 2022 – 2023 model year Tundra HV vehicles equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty — California Emission Long-Term Defect Warranty is in effect for 7 years or 70,000 miles from the vehicle's in-service date, whichever occurs first. (Please reference Policy 4.7, and/or the Owner's Warranty & Maintenance Guide for additional information)
- For 2021 – 2022 model year RAV4 Prime* vehicles equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty — Partial Zero Emission Vehicle (PZEV) Emission Warranty Coverage is in effect for 15 years or 150,000 miles, from the vehicle's in-service date, whichever occurs first. (Please reference Warranty Policy Bulletin POL14-09, Warranty Policy 4.7, and/or the Owner's Warranty & Maintenance Guide for additional information)

*For 2021 – 2022 RAV4 Prime, PZEV coverage only applies if the MIL is illuminated.

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Warranty Information (continued)

For Mexico Market

OP CODE	DESCRIPTION	MODEL	TIME	OFP	T1	T2
EL2309	R & R Hybrid Vehicle Relay Assembly	Avalon Hybrid	0.9	G92Z0-*****	8A	02
		Camry Hybrid	0.9			
		Corolla Hybrid	1.0			
		Mirai	3.1			
		Prius	1.5			
		Prius Prime	2.0			
		RAV4 Hybrid w/ VDS #6RFV	0.8			
		RAV4 Hybrid w/ VDS #WRFV	1.0			
		Venza Hybrid	0.8			
EL2311	R & R Hybrid Vehicle Relay Assembly	Crown w/ VDS AAAAF	1.0	G3850-***** G3860-*****	8A	02
		Crown w/ VDS AFAAF	1.1			
		Highlander Hybrid	1.0			
		RAV4 Prime	3.5			
		Sequoia Hybrid	2.5			
		Sienna Hybrid	1.4			
		Tundra Hybrid	1.4			

*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 60,000 kilometers, 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 With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Parts Information

For USA and Mexico Markets

PART NUMBER	PART NAME	QTY
G92Z0-33041 – G92Z0-47100	Block Assy, HV Battery Junction	1
G92Z0-33051 – G92Z0-47110		1
G3850-48010	Box Assy, Traction Battery Device, No. 1	1
G3860-42010	Box Assy, Traction Battery Device, No. 2	1
G92Z0-47050	Block Assy, HV Battery Junction	1

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	DCA-8000P T	1
Insulated Glove Set, Rubber With Leather Protectors*	01413-00072 (Medium)	
	01413-00073 (Large)	
	01413-00074 (Extra Large)	

*Essential SST.

CAUTION

ALWAYS inspect the insulated 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 (USA) or 01-800-504-5330 (Mexico).

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2023.03.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 (USA) or 01-55-50103041 (Mexico).
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a hybrid system warning lamp in below-freezing temperatures (below 32°F or 0°C) with DTC(s) P1C8449 and/or DTC P300449 present?

- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Is the VIN BEFORE the one listed in the Production Change Information table?

- **YES** — Continue to step 3.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

3. Refer to the appropriate Repair Manual to gain access to the HV battery junction block/traction battery device.

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

- [2019 – 2020](#) Avalon HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2021 / 2022](#) Avalon HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”
- [2018 – 2020 / 2021 – 2023](#) Camry HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2018 – 2020 / 2021 – 2023](#) Camry HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”
- [2022](#) Corolla HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2022](#) Corolla HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Repair Procedure (continued)

- [2023](#) Crown:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for A25A-FXS): Removal”
- [2023](#) Crown:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for T24A-FTS): Removal”
- [2020 – 2023](#) Highlander HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV°Relay Assembly: Removal”
- [2021](#) / [2022](#) / [2023](#) Mirai:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV°Relay Assembly: Removal”
- [2016 – 2018](#) / [2019 – 2020](#) / [2021 – 2022](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2016 – 2018](#) / [2019 – 2020](#) / [2021 – 2022](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”
- [2017 – 2019](#) / [2020](#) / [2021 – 2022](#) Prius Prime:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Removal”
- [2019 \(11/2018 – 02/2019\)](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2019 \(02/2019 – 10/2019\)](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2020 \(10/2019 – 06/2020\)](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2020 \(06/2020 – 08/2020\)](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2021](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Repair Procedure (continued)

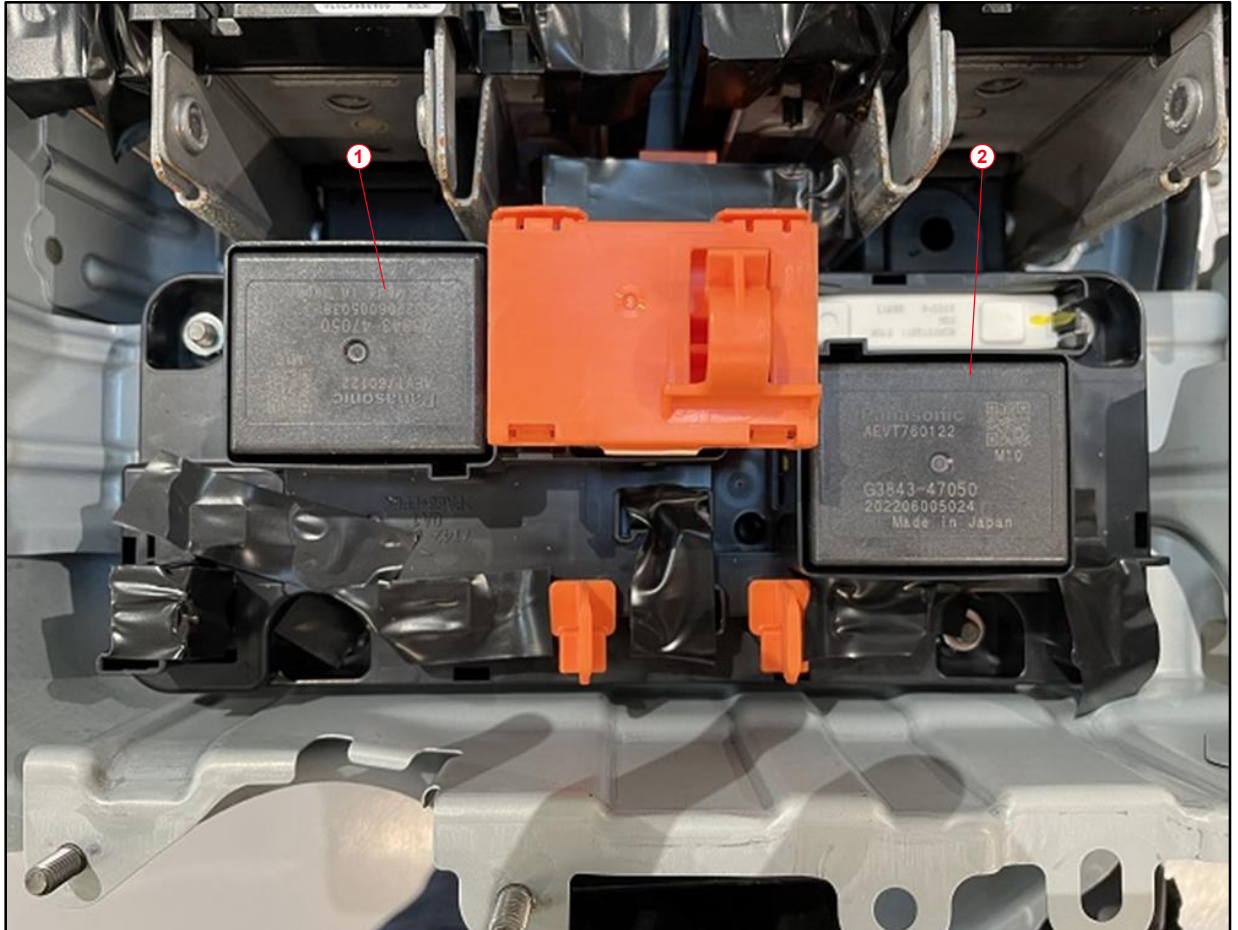
- [2022](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2023](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Removal”
- [2020 \(06/2020 – 08/2020\)](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”
- [2021](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”
- [2022](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”
- [2023](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Removal”
- [2021](#) / [2022](#) RAV4 Prime:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Removal”
- [2023](#) Sequoia HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Removal”
- [2021 – 2023](#) Sienna HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Removal”
- [2022 – 2023](#) Tundra HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Removal”
- [2021 – 2022](#) / [2023](#) Venza HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Removal”

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Repair Procedure (continued)

4. Perform an inspection of the SMRB and SMRG internal relays.

Figure 1. Example of an HV Battery Junction Block (SMR)



1	SMRB Relay
2	SMRG Relay

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures


Repair Procedure (continued)

A. Are the relays labeled Panasonic?

See Figure 2 for an example of a relay labeled Panasonic.

- **YES** — Inspect the relay date code for the countermeasure date and go to step 5.
- **NO** — Continue to substep B.

Figure 2. Example of a Panasonic Relay



Panasonic Relay Date Code:
YYYYMM #####
 The countermeasure date for the Panasonic relay is **July 2021**.

MONTH	CODE
Jan.	01
Feb	02
Mar	03
Apr	04
May	05
Jun	06
Jul	07
Aug	08
Sep	09
Oct	10
Nov	11
Dec	12

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures


Repair Procedure (continued)

B. Are the relays labeled Denso?

See Figure 3 for an example of a relay labeled Denso.

- **YES** — Inspect the relay date code for the countermeasure date and continue to step 5.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Figure 3. Example of a Denso Relay



Denso Relay Date Code: **MMYYDD**
 The countermeasure date for the Denso relay is **December 23, 2022.**

MONTH	CODE
Jan.	01
Feb	02
Mar	03
Apr	04
May	05
Jun	06
Jul	07
Aug	08
Sep	09
Oct	10
Nov	11
Dec	12

YEAR	CODE
2018	B
2019	C
2020	D
2021	E
2022	F
2023	G

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Repair Procedure (continued)

5. Were the relays produced BEFORE the countermeasure date listed in step 4?
 - **YES** — Continue to step 6.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

6. Install the NEW HV battery junction block/traction battery device.
Refer to TIS, applicable model and model year Repair Manual:
 - [2019 – 2020](#) Avalon HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Installation”
 - [2021 – 2022](#) Avalon HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Installation”
 - [2018 – 2023](#) Camry HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Installation”
 - [2018 – 2023](#) Camry HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Installation”
 - [2022](#) Corolla HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Installation”
 - [2022](#) Corolla HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Installation”
 - [2023](#) Crown:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for A25A-FXS): Installation”
 - [2023](#) Crown:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for T24A-FTS): Installation”
 - [2020 – 2023](#) Highlander HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV°Relay Assembly: Installation”
 - [2021 – 2023](#) Mirai:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV°Relay Assembly: Installation”

MIL ON With DTC(s) P1C8449 and/or P300449 in Freezing Temperatures

Repair Procedure (continued)

- [2016 – 2018](#) / [2019 – 2022](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Installation”
- [2016 – 2022](#) Prius:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Installation”
- [2017 – 2019](#) / [2020](#) / [2021 – 2022](#) Prius Prime:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Installation”
- [2019 – 2023](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Nickel Metal Hydride Battery): Installation”
- [2020 – 2023](#) RAV4 HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly (for Lithium-ion Battery): Installation”
- [2021 – 2022](#) RAV4 Prime:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Installation”
- [2023](#) Sequoia HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Installation”
- [2021 – 2023](#) Sienna HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Installation”
- [2022 – 2023](#) Tundra HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Installation”
- [2021 – 2023](#) Venza HV:
Engine/Hybrid System – Hybrid/Battery Control System – “Hybrid / Battery Control: HV Relay Assembly: Installation”

7. Clear ANY DTCs and test-drive the vehicle to confirm the condition is no longer present.