

MIL ON With DTC(s) P1C5F19 and/or P1C5D19 Causing Over-current Condition

Service Category Vehicle Interior

Section Meter/Gauge/Display

Market USA

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019 - 2020	Avalon HV, Camry HV, RAV4 HV	

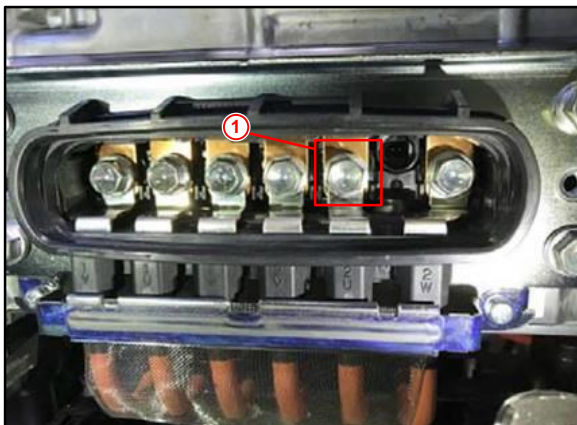
Introduction

Some 2019 – 2020 model year Avalon Hybrid, Camry Hybrid, and RAV4 Hybrid vehicles may exhibit a MIL ON condition with a “Hybrid System Malfunction” message displayed and one or more of the following DTC(s) that represent an over current between the MG1, MG2, and inverter/PCU:

- P1C5D19 – Drive Motor "A" Inverter Circuit Current Above Threshold
- P1C5F19 – Generator Inverter Circuit Current Above Threshold

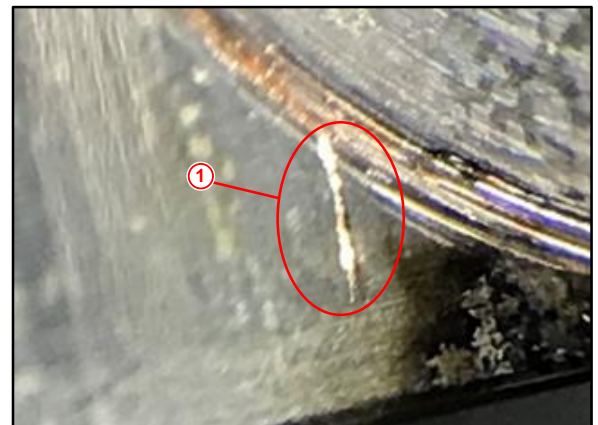
These conditions typically occur on low vehicle mileage (less than 5,000). After an occurrence, the vehicle will be able to run normally with no drivability issues. Follow the Repair Procedure in this bulletin to address these conditions.

Figure 1. View of Terminals at the Inverter



1 Close-Up View of Terminal (See Figure 2)

Figure 2. Close-Up View of Terminal



1 Debris Created From Bolt Tightening

MIL ON With DTC(s) P1C5F19 and/or P1C5D19 Causing Over-current Condition

Production Change Information

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

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Camry HV	TMMK #1	4T1C31AK#LU011609 4T1E31AK#LU011609 4T1L31AK#LU011609 4T1G31AK#LU011609 4T1J31AK#LU011609 4T1M31AK#LU011609 4T1P31AK#LU011609 4T1F31AK#LU011609
	TMMK #2	4T1C31AK#LU525895 4T1E31AK#LU525895 4T1L31AK#LU525895 4T1G31AK#LU525895 4T1J31AK#LU525895 4T1M31AK#LU525895 4T1P31AK#LU525895 4T1F31AK#LU525895
RAV4 HV	TICO #1	JTMLWRFV#LD053757 JTMEWRFV#LD053757 JTMRWRFV#LD053757 JTMDWRFV#LD053757
	TICO #2	JTMLWRFV#LD533946 JTMEWRFV#LD533946 JTMRWRFV#LD533946 JTMDWRFV#LD533946
	TAKAOKA	JTMLWRFV#LJ038694 JTMEWRFV#LJ038694 JTMRWRFV#LJ038694 JTMDWRFV#LJ038694
	TMMC	2T3LWRFV3#W070728 2T3RWRFV3#W070728 2T3DWRFV3#W070728
	TMMK	4T3LWRFV3#U001123 4T3RWRFV3#U001123 4T3DWRFV3#U001123 4T3EWRFV3#U001123

MIL ON With DTC(s) P1C5F19 and/or P1C5D19 Causing Over-current Condition

Production Change Information (continued)

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Avalon HV	TMMK	4T1B21FB7#U015903 4T1A21FB7#U015903 4T1J21FB7#U015903 4T1E21FB7#U015903 4T1C21FB7#U015903

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EL1928	R & R Bolts for Motor Cable	2.0	91671-80612 90119-A0182	8A	73

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.

Parts Information

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Camry HV	91671-80612	90119-06A57	Bolt, With Washer	8
Avalon HV	90119-A0182			
RAV4 HV	91671-80612			
All	82823-47040		Cap, Terminal	1

MIL ON With DTC(s) P1C5F19 and/or P1C5D19 Causing Over-current Condition

Required Tools & Equipment

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.
- Software version 14.30.022 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Run a Health Check to confirm the condition exists.

Does the vehicle exhibit a MIL ON condition with a “Hybrid System Malfunction” message displayed and DTC(s) P1C5D19 and/or DTC P1C5F19 present?

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

NOTE

This condition is for DTC(s) P1C5D19 and P1C5F19. If other Hybrid DTC codes exist, this bulletin may NOT be applicable. Continue diagnosis using the applicable Repair Manual.

MIL ON With DTC(s) P1C5F19 and/or P1C5D19 Causing Over-current Condition

Repair Procedure (continued)

2. Remove the MG cable.

NOTE

The bolts from the inverter may be reused.

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

- [2019](#) / [2020](#) Avalon HV:
Drivetrain – Hybrid Transmission/Transaxle – “P710 (Hybrid Transmission / Transaxle): Motor Cable: Removal”
- [2019](#) / [2020](#) Camry HV:
Drivetrain – Hybrid Transmission/Transaxle – “P710 (Hybrid Transmission / Transaxle): Motor Cable: Removal”
- [2019](#) / [2020](#) RAV4 HV:
Drivetrain – Hybrid Transmission/Transaxle – “P710 (Hybrid Transmission / Transaxle): Motor Cable: Removal”

3. Using compressed air, blow out ALL potential debris on the terminals and connections area of the inverter and transaxle. Visually confirm there is no debris present on terminals and connections area.
4. Reinstall the MG cable with NEW bolts into the transaxle assembly. Inverter bolts can be reused. Refer to TIS, applicable model and model year Repair Manual:
 - [2019](#) / [2020](#) Avalon HV:
Drivetrain – Hybrid Transmission/Transaxle – “P710 (Hybrid Transmission / Transaxle): Motor Cable: Installation”
 - [2019](#) / [2020](#) Camry HV:
Drivetrain – Hybrid Transmission/Transaxle – “P710 (Hybrid Transmission / Transaxle): Motor Cable: Installation”
 - [2019](#) / [2020](#) RAV4 HV:
Drivetrain – Hybrid Transmission/Transaxle – “P710 (Hybrid Transmission / Transaxle): Motor Cable: Installation”

NOTE

Ensure correct fastening tools and torque are used when installing the MG cable. Over tightening can create debris.

5. Clear codes and test-drive the vehicle to ensure the conditions no longer exists.