Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028ZW0			
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]			
Title: HYBRID / BATTERY CONTROL: HYBRID CONTROL SYSTEM (for M20A-FXS): P163181; Communication Error from ECM to VSC Invalid Serial Data Received: 2023 - 2024 MY Prius Prius Prime [12/2022 -]					

DTC	P163181	Communication Error from ECM to VSC Invalid Serial Data Received	
-----	---------	--	--

DESCRIPTION

The skid control ECU (brake booster with master cylinder assembly) sends signals such as brake request signals to the hybrid vehicle control ECU. When the hybrid vehicle control ECU detects logic error signals sent from the skid control ECU (brake booster with master cylinder assembly) for a certain period of time, DTC P163181 is stored.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P16318	Communication Error from ECM to VSC Invalid Serial Data Received	When the ignition switch is ON and the dynamic radar cruise control system is operating, the hybrid vehicle control ECU detects logic error signals sent from the skid control ECU (brake booster with master cylinder assembly) for approximately 1 second or more. (1 trip detection logic)	Electronically controlled brake system Hybrid vehicle control ECU		1 - 1	Hybrid Control	A	SAE Code: P1631

CAUTION / NOTICE / HINT

NOTICE:

Before replacing the certification ECU (smart key ECU assembly), refer to Registration.



PROCEDURE

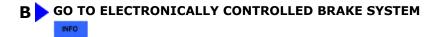
1. CHECK FOR DTCs

(a) Check for electronically controlled brake system DTCs.

Chassis > Brake/EPB > Trouble Codes

Chassis > Brake Booster > Trouble Codes

RESULT	PROCEED TO
Electronically controlled brake system DTCs are not output	А
Electronically controlled brake system DTCs are output	В





2. CHECK FOR DTCs

Pre-procedure1

- (a) Clear the DTCs.
- (b) Make sure that the DTC detection conditions are met.

HINT:

If the detection conditions are not met, the system cannot detect the malfunction.

Procedure1

(c) Check for DTCs.

Powertrain > Hybrid Control > Trouble Codes

RESULT	PROCEED TO		
DTC P163181 is not output	А		
DTC P163181 is output	В		

Post-procedure1

(d) None.



B REPLACE HYBRID VEHICLE CONTROL ECU



