

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028X2N
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: ELECTRONICALLY CONTROLLED BRAKE SYSTEM: TRAC does not Operate; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

TRAC does not Operate

DESCRIPTION

When ABS, TRAC or VSC is operating, the No. 2 skid control ECU (brake actuator assembly) blinks the slip indicator light to inform the driver that slippage occurred.

When in VSC off mode, or TRAC and VSC are disabled, the multi-information display in the combination meter assembly displays "Traction Control Turned OFF" and the VSC OFF indicator light illuminates to inform the driver.

When a communication malfunction with the hybrid vehicle control ECU is detected, TRAC and VSC are disabled. Also when the system is malfunctioning, TRAC and VSC are disabled and the indicator lights of related systems illuminate.

PROCEDURE

1. BRAKE PROBLEM CHECK

(a) Check if the slip indicator light was illuminated when TRAC did not operate.

OK:

The slip indicator light was illuminated.

HINT:

When a DTC is stored, the slip indicator light is illuminated and TRAC does not operate due to the fail-safe function.

(b) Check the operation condition of the VSC OFF switch (electric parking brake switch assembly) when TRAC did not operate.

OK:

The VSC OFF switch (electric parking brake switch assembly) had been operated to turn off TRAC when TRAC did not operate.

HINT:

When the multi-information display in the combination meter assembly displays "Traction Control Turned OFF", TRAC does not operate.

OK  **END**

NG



2. CHECK DTC

(a) Check the DTCs (electronically controlled brake system) that are output.

Chassis > Brake Booster > Trouble Codes

Chassis > Brake/EPB > Trouble Codes

RESULT	PROCEED TO
DTCs are not output.	A
Electronically controlled brake system DTCs are output.	B

B ▶ REPAIR CIRCUITS INDICATED BY OUTPUT DTCS

A



3.	CHECK VEHICLE
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(a) Operate the VSC OFF switch (electric parking brake switch assembly) and check that the multi-information display in the combination meter assembly displays "Traction Control Turned OFF" and the VSC OFF indicator light illuminates in accordance with the operation of the switch.

OK:

The multi-information display in the combination meter assembly displays "Traction Control Turned OFF" and the VSC OFF indicator light illuminates in accordance with the operation of the switch.

NG ▶ INSPECT VSC OFF SWITCH CIRCUIT INFO

OK

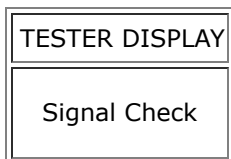


4.	PERFORM DEALER MODE (SIGNAL CHECK) INSPECTION (SPEED SENSOR CIRCUIT)
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(a) Using the GTS, perform a Dealer Mode (Signal Check) inspection sensor check and check that speed sensor Dealer Mode (Signal Check) inspection items change from incomplete to complete.

Click here INFO

Chassis > Brake/EPB > Utility



OK:

Speed sensor Dealer Mode (Signal Check) inspection items change from incomplete to complete.

NG ▶ **INSPECT AND REPAIR MALFUNCTIONING SPEED SENSOR CIRCUIT**

OK



5. PERFORM OPERATION CHECK DRIVING

- (a) Operate the VSC OFF switch (electric parking brake switch assembly) and check that the system is not in TRAC off mode or VSC off mode.
- (b) Check that no DTCs are output and that each warning light is not illuminated.
- (c) Start off the vehicle on a low friction surface and check that TRAC operates when attempting to make the drive wheels slip.

OK:

TRAC operates when slip occurs when starting off.

NOTICE:

- Even when the system is normal, VSC may not operate when the vehicle speed is low or TRAC may not operate due to a malfunction. Make sure that only the drive wheels slip during the procedure.
- When confirming that the slip indicator light blinks, do not slip the drive wheels longer than necessary. Whether TRAC operated or not can be checked by reading the Vehicle Control History when the system operated.

Click here 

- Pay attention to your surroundings when performing the procedure and depress the accelerator pedal with caution.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▶ **REPLACE BRAKE ACTUATOR ASSEMBLY** 

