

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028X2Q
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: ELECTRONICALLY CONTROLLED BRAKE SYSTEM: ABS Operates Before Necessary When Braking; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

ABS Operates Before Necessary When Braking

DESCRIPTION

Troubleshooting for when ABS operates too soon due to a noisy signal from the speed sensor, a difference in output, etc.

PROCEDURE

1. CHECK VEHICLE

RESULT	PROCEED TO
for 2WD	A
for AWD	B

B  **GO TO STEP 3**

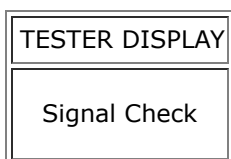
A


2. PERFORM DEALER MODE (SIGNAL CHECK) INSPECTION (SPEED SENSOR CIRCUIT)

(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 

Chassis > Brake/EPB > Utility



OK:

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

NOTICE:

- When cleaning the front speed sensor, make sure to clean the installation hole before installation.
- Do not use parts cleaner when cleaning the front speed sensor rotor.

HINT:

The rear speed sensor and rear speed sensor rotor are incorporated into the rear axle hub and bearing assembly.

If the rear speed sensor and rear speed sensor rotor need to be replaced, replace the rear axle hub and bearing assembly.

RESULT	PROCEED TO
OK (for Front)	A
OK (for Rear)	B
NG	C

A ▶ **CLEAN FRONT SPEED SENSOR AND FRONT SPEED SENSOR ROTOR**

B ▶ **REPLACE REAR AXLE HUB AND BEARING ASSEMBLY**
INFO

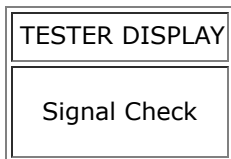
C ▶ **INSPECT AND REPAIR MALFUNCTIONING SPEED SENSOR CIRCUIT**

3. PERFORM DEALER MODE (SIGNAL CHECK) INSPECTION (SPEED SENSOR CIRCUIT)

(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.

NOTICE:

- When cleaning the front speed sensor and rear speed sensor, make sure to clean the installation hole before installation.
- Do not use parts cleaner when cleaning the front speed sensor rotor and rear speed sensor rotor.

RESULT	PROCEED TO
OK (for Front)	A
OK (for Rear)	B
NG	C

A ► CLEAN FRONT SPEED SENSOR AND FRONT SPEED SENSOR ROTOR

B ► CLEAN REAR SPEED SENSOR AND REAR SPEED SENSOR ROTOR

C ► INSPECT AND REPAIR MALFUNCTIONING SPEED SENSOR CIRCUIT

