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2017 Lexus IS 200t Service and Repair Manual

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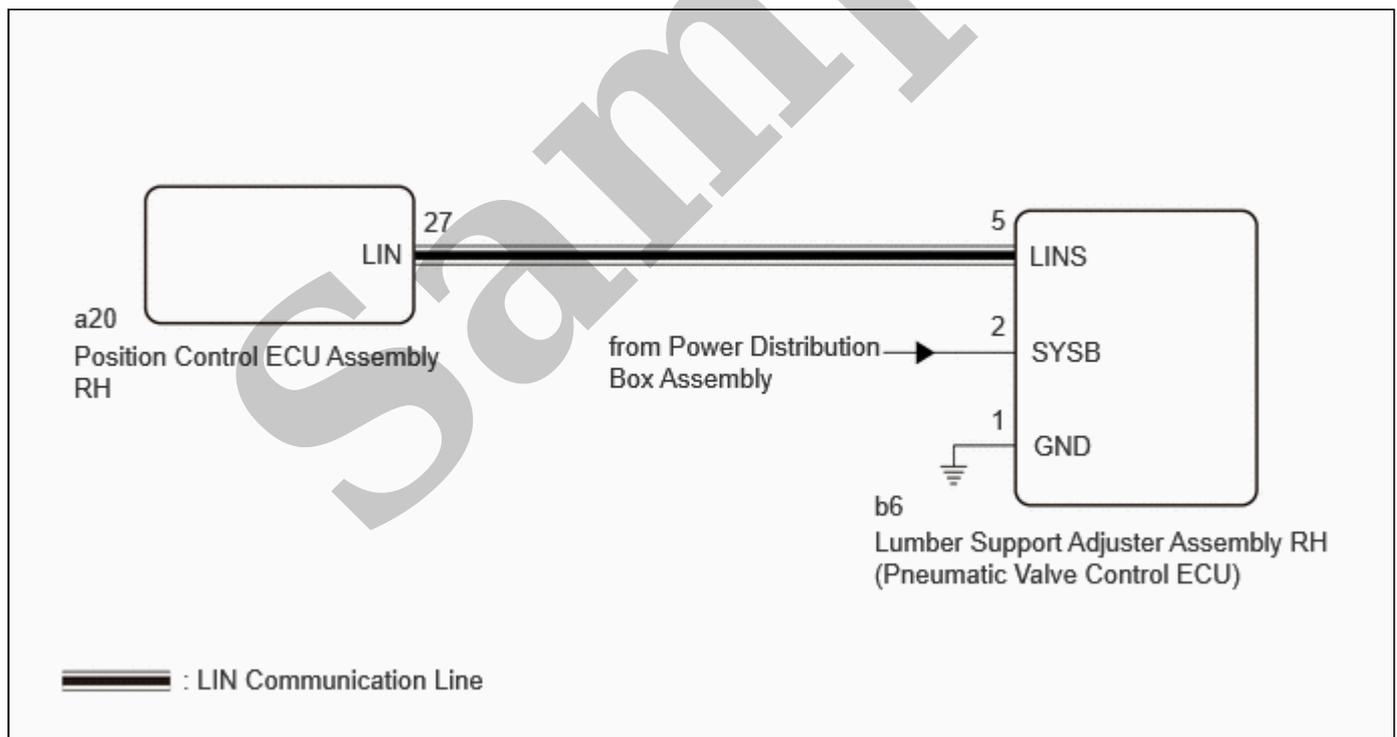
Last Modified: 10-07-2024	6.11:8.1.0	Doc ID: RM100000002IBBF
Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: SEAT: FRONT POWER SEAT CONTROL SYSTEM (w/ Memory): B267B87; Refresh ECU Missing Message; 2024 MY GX550 [12/2023 -]		

DTC	B267B87	Refresh ECU Missing Message
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DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B267B87	Refresh ECU Missing Message	No communication between position control ECU assembly RH and pneumatic valve control ECU for 10 seconds or more	<ul style="list-style-type: none"> Lumber support adjuster assembly RH Position control ECU assembly RH Harness or connector 	Passenger Seat	A

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- Make sure to initialize the position control ECU assembly RH after replacing the position control ECU assembly RH, seat assembly or any related parts (including removal and installation).

Click here [INFO](#)

- Initializing the position control ECU assembly RH will clear the seat position memory.

 EWD INFO

[Click Location & Routing\(b6\).](#)
[Click Connector\(b6\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b6-2 (SYSB) - Body ground	Always	11 to 14 V	V

Post-procedure1

(d) None

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK



4. CHECK HARNESS AND CONNECTOR (PNEUMATIC VALVE CONTROL ECU - POSITION CONTROL ECU ASSEMBLY RH)

Pre-procedure1

(a) Disconnect the a20 position control ECU assembly RH connector.

Procedure1

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

 EWD INFO

[Click Location & Routing\(b6,a20\).](#)
[Click Connector\(b6\).](#)
[Click Connector\(a20\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
b6-5 (LINS) - a20-27 (LIN)	Always	Below 1 Ω	Ω
b6-5 (LINS) or a20-27 (LIN) - Other terminals and body ground	Always	10 k Ω or higher	k Ω

Post-procedure1

(c) None

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK



5. CHECK POSITION CONTROL ECU ASSEMBLY RH

Pre-procedure1

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Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: PARK ASSIST / MONITORING: PARKING ASSIST MONITOR SYSTEM: PRECAUTION; 2024 MY GX550 [12/2023 -]		

PRECAUTION

SENSOR EXPRESSIONS

(a) The descriptions for the blind spot monitor sensors differ depending on the system. The expressions listed in the table below are used in this Repair Manual.

PART NAME	ACTUAL PART NAME
Blind spot monitor sensor RH (B)	Blind spot monitor sensor RH
Blind spot monitor sensor LH (A)	Blind spot monitor sensor LH

POINTS TO NOTE WHEN SERVICING

(a) Pay attention to the following points when servicing.

- (1) Depending on the parts that are replaced or operations that are performed during vehicle inspection or maintenance, calibration of other systems as well as the parking assist monitor system may be needed.

Click here [INFO](#)

HINT:

Each adjusted value for the calibration of the parking assist monitor system will be stored in the display.

- (2) A clear image may not be displayed if there is foreign matter such as water drops, snow or mud on the television camera lens. In such a case, wash the lens with a large amount of water and then wipe it with a soft wet cloth. Do not scrub the camera lens as scrubbing may scratch the camera lens and affect the quality of the image.

NOTES FOR REAR TELEVISION CAMERA ASSEMBLY

(a) Notes for the rear television camera assembly

- (1) The parking assist monitor system may not function properly if subjected to a severe blow by any hard object.
- (2) The cover part of the camera is made of resin. If any organic solvent, degreaser, wax or glass coating contacts the cover, immediately wipe it off and wash the cover with water or cracks may develop.
- (3) Exposing the camera to a sudden temperature change may affect proper functioning of the camera.
- (4) A clear image may not be displayed if there is foreign matter such as water drops, snow or mud on the television camera lens. In such a case, wash the lens with a large amount of water and then wipe it with a soft wet cloth. Do not scrub the camera lens as scrubbing may scratch the camera lens and affect the quality of the image.
- (5) When washing the vehicle with a high-pressure washer, do not spray water on the rear television camera assembly or surrounding area. High-pressure water can damage the camera.

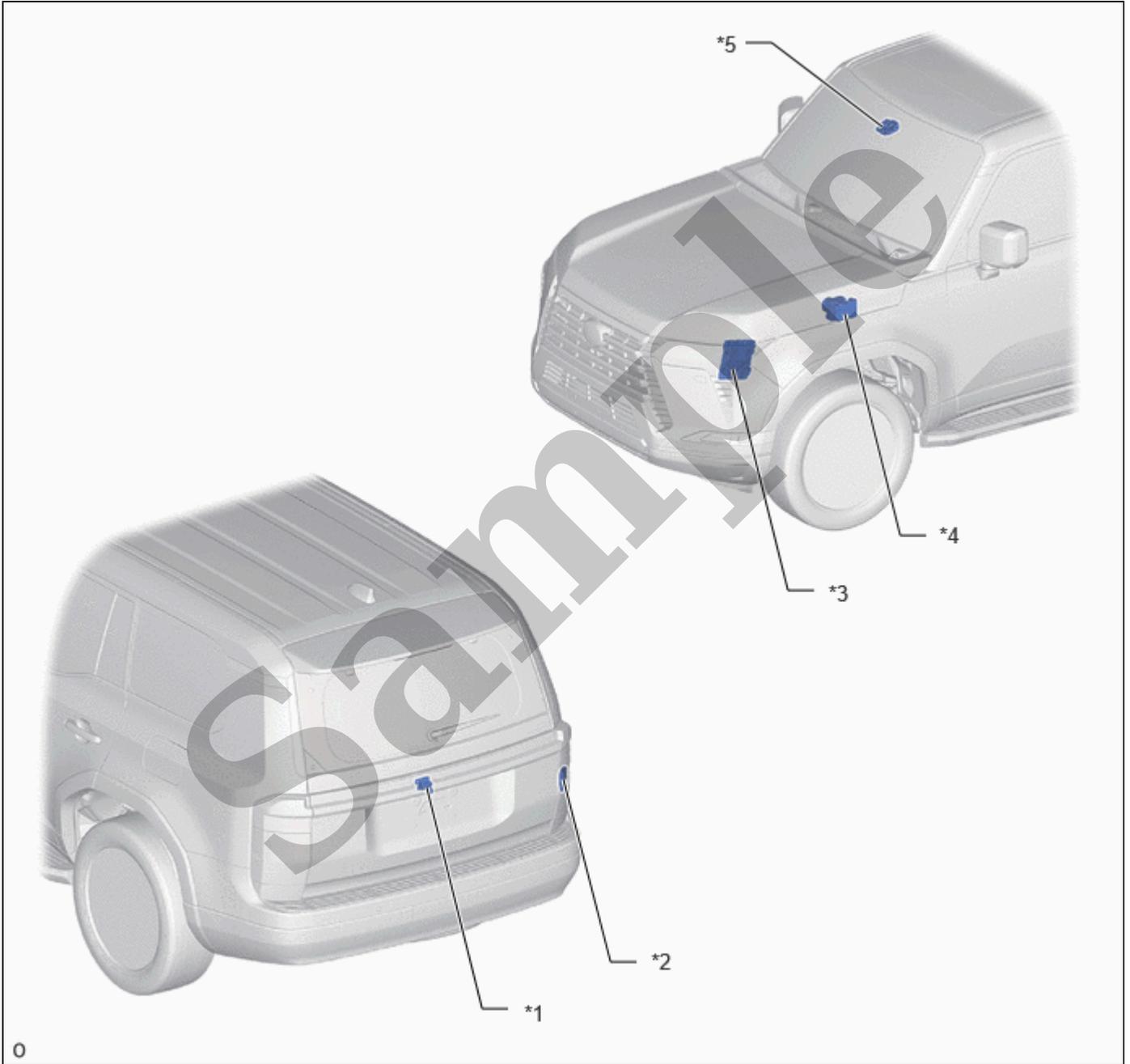
(b) Images may be unclear even in normal conditions if:

- (1) Electrical devices are used in the cabin (noise may occur in the image).
- (2) Accessories that generate radio waves have been installed (noise may occur in the image).
- (3) The display is cold (the image immediately after turning the ignition switch to ON may be blurred or darker than normal).
- (4) The camera lens is dirty with snow, mud, etc.
- (5) A strong beam of light, such as a sunbeam or headlight, hits the camera.
- (6) It is too dark around the camera (at night, etc.).
- (7) The ambient temperature around the camera is either too high or too low.
- (8) The vehicle is tilted at a steep angle.

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Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: PARK ASSIST / MONITORING: PARKING ASSIST MONITOR SYSTEM: PARTS LOCATION; 2024 MY GX550 [12/2023 -]		

PARTS LOCATION

ILLUSTRATION

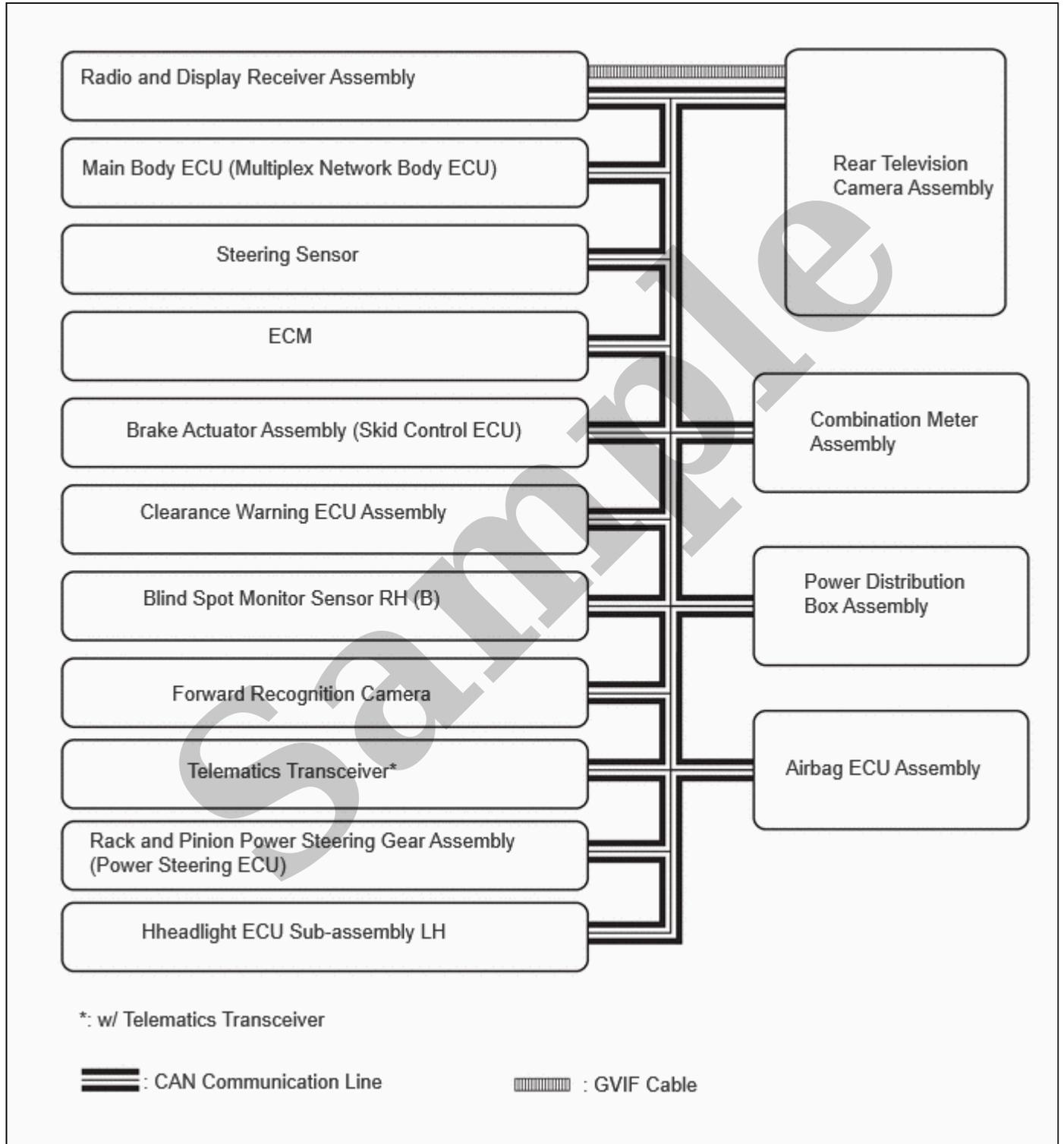


*1	REAR TELEVISION CAMERA ASSEMBLY	*2	BLIND SPOT MONITOR SENSOR RH (B)
*3	ECM	*4	BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU)
*5	FORWARD RECOGNITION CAMERA	-	-

ILLUSTRATION

Last Modified: 10-07-2024	6.11:8.1.0	Doc ID: RM100000002IC7P
Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: PARK ASSIST / MONITORING: PARKING ASSIST MONITOR SYSTEM: SYSTEM DIAGRAM; 2024 MY GX550 [12/2023 -]		

SYSTEM DIAGRAM



Last Modified: 10-07-2024	6.11:8.1.0	Doc ID: RM100000002IC7R
Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: PARK ASSIST / MONITORING: PARKING ASSIST MONITOR SYSTEM: PROBLEM SYMPTOMS TABLE; 2024 MY GX550 [12/2023 -]		

PROBLEM SYMPTOMS TABLE

NOTICE:

- The following inspection procedures for the parking assist monitor system are based on the assumption that the audio and visual system or avigation system is normal. If the audio and visual system has any malfunction, first proceed with troubleshooting of the audio and visual system.
- Depending on the parts that are replaced or operations that are performed during vehicle inspection or maintenance, calibration of other systems as well as the parking assist monitor system may be needed.

Click here [INFO](#)

- The vehicle is equipped with a Supplemental Restraint System (SRS) which includes components such as airbags. Before servicing (including removal or installation of parts), be sure to read the precaution for Supplemental Restraint System.

Click here [INFO](#)

- After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal.

Click here [INFO](#)

- When disconnecting and reconnecting the battery

HINT:

When disconnecting and reconnecting the cable to the battery terminal, there is an automatic learning function that completes learning when the respective system is used.

Click here [INFO](#)

HINT:

- Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.
- The following problem symptoms table is written based on the assumption that the ECUs used for communication between the rear television camera assembly are normal and each system controlled by the ECUs is normal.

General

SYMPTOM	SUSPECTED AREA	LINK
When the shift position is in R, an image of the area behind the vehicle is not displayed (screen is not black)	Check vehicle signal (reverse signal)	INFO
	CAN communication system	INFO
	Audio and visual system	INFO
	SFI system	-
	Rear television camera assembly	INFO
	Radio and display receiver assembly	INFO
When the shift position is in R, an image of the area behind the vehicle is not displayed (screen is black)	Proceed to "Image from Camera for Parking Assist Monitor is Abnormal"	INFO
When the shift position is not in R, an image of the area behind the vehicle is displayed	Check vehicle signal (reverse signal)	INFO
	CAN communication system	INFO
	Audio and visual system	INFO
	SFI system	-

SYMPTOM	SUSPECTED AREA	LINK
When adjusting the camera optical axis, "You can not calibrate the camera when the door is open. Please close the door." is displayed even after the back door has been closed	Check that the No. 1 luggage compartment light assembly illuminates normally (if not, refer to Lighting System [INT] - Problem Symptoms Table)	INFO
	Rear television camera assembly	INFO
"CHK" message(s) are displayed on the signal check screen	Signal check (diagnosis system)	INFO
When an image of the area behind the vehicle is displayed, the lines are misaligned (the image from the camera is tilted)	Back camera position setting (calibration)	INFO
	Rear television camera assembly	INFO

Others

SYMPTOM	SUSPECTED AREA	LINK
A switch displayed on the parking assist monitor screen does not respond when pushed, or a switch other than the pushed switch responds.	Proceed to "CHECK TOUCH SWITCH" in Audio and visual system	INFO
	Rear television camera assembly	INFO
	Radio and display receiver assembly	INFO
A beep sound is not emitted when a switch displayed on the parking assist monitor screen is pushed.	Check the setting on the audio screen (General setting)	-
	Proceed to "CHECK TOUCH SWITCH" in Audio and visual system	INFO
	Rear television camera assembly	INFO
	Radio and display receiver assembly	INFO
The language of the messages displayed on the parking assist monitor screen cannot be changed.	Check the setting on the audio screen (General setting)	-
	Rear television camera assembly	INFO
	Radio and display receiver assembly	INFO
The switches displayed on the parking assist monitor screen are grayed out.	Rear television camera assembly	INFO
	Radio and display receiver assembly	INFO
The color of the switches displayed on the parking assist monitor screen are abnormal, or the switches are not dimmed when the headlights are turned on.	Check the setting on the audio screen (Screen adjustment)	-
	Proceed to "CHECK TOUCH SWITCH" in Audio and visual system	INFO
	Rear television camera assembly	INFO
	Radio and display receiver assembly	INFO

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Model Year Start: 2024	Model: GX550	Prod Date Range: [12/2023 -]
Title: PARK ASSIST / MONITORING: PARKING ASSIST MONITOR SYSTEM: DIAGNOSIS SYSTEM; 2024 MY GX550 [12/2023 -]		

DIAGNOSIS SYSTEM

PARKING ASSIST MONITOR SYSTEM DIAGNOSTIC MODE

- (a) In diagnostic mode for the parking assist monitor system, signals received by the radio and display receiver assembly can be checked and the parking assist monitor system can be calibrated, adjusted and checked using the radio and display receiver assembly.

NOTICE:

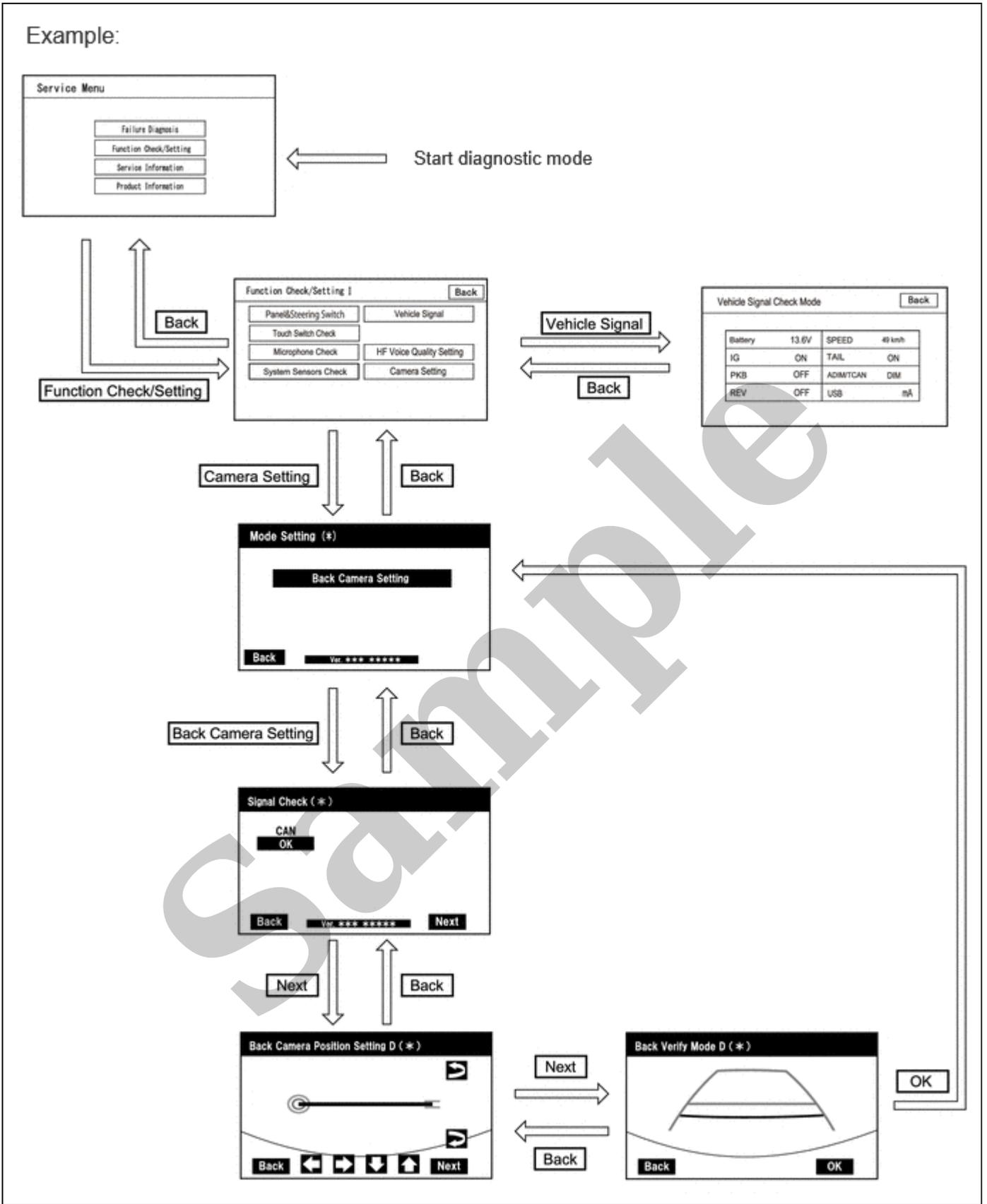
Depending on the parts that are replaced or operations that are performed during vehicle inspection or maintenance, calibration of other systems as well as the parking assist monitor system may be needed.

Click here [INFO](#)

HINT:

The displayed items may differ depending on vehicle specifications.

DIAGNOSIS SCREEN TRANSITION (DURING PARKING ASSIST MONITOR SYSTEM INITIALIZATION)



VEHICLE SIGNAL CHECK

HINT:

Illustrations may differ from the actual vehicle screen depending on the device settings and options. Therefore, some detailed areas may not be shown exactly the same as on the actual vehicle screen.

(a) Start diagnostic mode.