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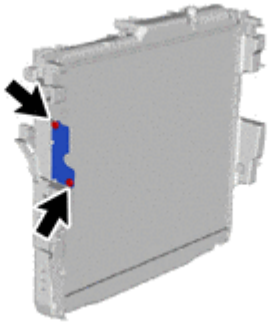
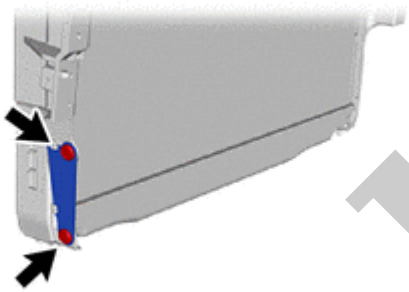
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2004 LEXUS IS Sport Cross OEM Service and Repair Workshop Manual

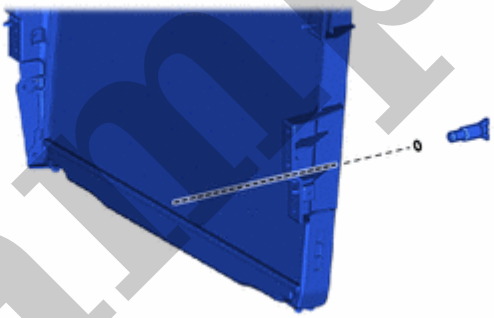
Go to manual page



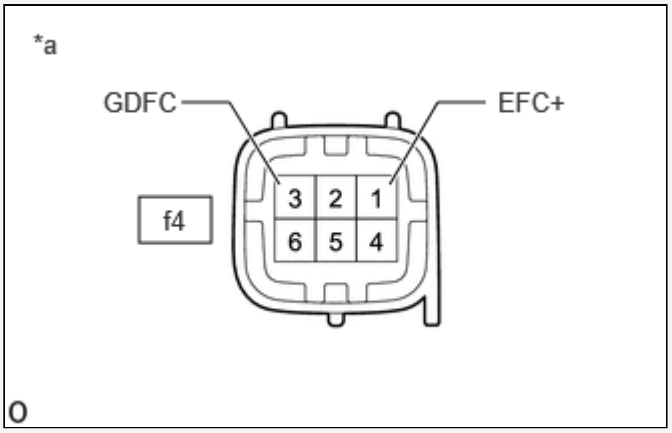
48. REMOVE NO. 1 RADIATOR TO SUPPORT SEAL



49. REMOVE RADIATOR DRAIN COCK PLUG



TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
f4-1(EFC+) - f4-3(GDFC)	20 °C (68 °F)	7.05 to 8.61 Ω



*a	Component without harness connected (Fluid Coupling Assembly)

(f) Install the fluid coupling assembly with the 4 nuts.

Torque:
10 N·m {102 kgf·cm, 7 ft·lbf}

(g) Install the fluid coupling assembly with fan.

HINT:

Click here INFO

CAUTION:

When performing the confirmation driving pattern, obey all speed limits and traffic laws.

NOTICE:

- Because the order of diagnosis is important to allow correct diagnosis, make sure to begin troubleshooting using How to Proceed with Troubleshooting when CAN communication system related DTCs are output.

  Click here INFO
- Before measuring the resistance of the CAN bus, turn the ignition switch off and leave the vehicle for 1 minute or more without operating the key or any switches, or opening or closing the doors. After that, disconnect the cable from the negative (-) battery terminal and leave the vehicle for 10 minutes or more before measuring the resistance.
- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) battery terminal.

  Click here INFO
- When disconnecting and reconnecting the battery.

  HINT:

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

  Click here INFO
- Some parts must be initialized and set when replacing or removing and installing parts.

  Click here INFO
- After performing repairs, perform the DTC check procedure and confirm that the DTCs are not output again.

  DTC check procedure: Turn the ignition switch to ON and wait for 1 minute or more. Then operate the suspected malfunctioning system and drive the vehicle at 60 km/h (37 mph) or more for 5 minutes or more.
- After the repair, perform the CAN bus check and check that all the ECUs and sensors connected to the CAN communication system are displayed as normal.

  Click here INFO
- Inspect the fuses for circuits related to this system before performing the following procedure.

HINT:

- Before disconnecting related connectors for inspection, push in on each connector body to check that the connector is not loose or disconnected.
- When a connector is disconnected, check that the terminals and connector body are not cracked, deformed or corroded.

PROCEDURE

1.	CHECK FOR OPEN IN CAN BUS WIRE (STABILIZER CONTROL ECU BRANCH WIRE)

(a) Disconnect the cable from the negative (-) battery terminal.

(b) Disconnect the L20 stabilizer control ECU connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(L20)
Click Connector(L20)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L20-8 (CANH) - L20-7 (CANL)	Cable disconnected from negative (-) battery terminal	54 to 69 Ω

Last Modified: 10-07-2024	6.11:8.1.0	**Doc ID:** RM100000002HAET
Model Year Start: 2024	**Model:** GX550	**Prod Date Range:** [12/2023 -]
Title: NETWORKING: CAN COMMUNICATION SYSTEM: 4WD Control ECU Communication Stop Mode; 2024 MY GX550 [12/2023 -]		

4WD Control ECU Communication Stop Mode

DESCRIPTION

DETECTION ITEM	SYMPTOM	TROUBLE AREA
4WD Control ECU Communication Stop Mode	Communication stop for "Four Wheel Drive Control" is indicated on "CAN Bus Check" screen of the GTS. Click here INFO	• 4 wheel drive control ECU CAN branch wire or connector • Power source circuit of 4 wheel drive control ECU • 4 wheel drive control ECU ground circuit • 4 wheel drive control ECU

WIRING DIAGRAM

For the circuit diagram of the 4 wheel drive control ECU source refer to the transfer system.

Click here INFO

CAUTION / NOTICE / HINT

CAUTION:

When performing the confirmation driving pattern, obey all speed limits and traffic laws.

NOTICE:

- Because the order of diagnosis is important to allow correct diagnosis, make sure to begin troubleshooting using How to Proceed with Troubleshooting when CAN communication system related DTCs are output.

  Click here INFO
- Inspect the fuses for circuits related to this system before performing the following procedure.

2.	CHECK 4 WHEEL DRIVE CONTROL ECU POWER SOURCE CIRCUIT

(a) Check the 4 wheel drive control ECU power source circuit.

Click here INFO

OK ▶ **REPLACE 4 WHEEL DRIVE CONTROL ECU**

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

CAUTION:

When performing the confirmation driving pattern, obey all speed limits and traffic laws.

NOTICE:

- Because the order of diagnosis is important to allow correct diagnosis, make sure to begin troubleshooting using How to Proceed with Troubleshooting when CAN communication system related DTCs are output.

  Click here INFO
- Inspect the fuses for circuits related to this system before performing the following procedure.
- Before measuring the resistance of the CAN bus, turn the ignition switch off and leave the vehicle for 1 minute or more without operating the key or any switches, or opening or closing the doors. After that, disconnect the cable from the negative (-) battery terminal and leave the vehicle for 10 minutes or more before measuring the resistance.
- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) battery terminal.

  Click here INFO
- When disconnecting and reconnecting the battery.

  HINT:

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

  Click here INFO
- Some parts must be initialized and set when replacing or removing and installing parts.

  Click here INFO
- After performing repairs, perform the DTC check procedure and confirm that the DTCs are not output again.

  DTC check procedure: Turn the ignition switch to ON and wait for 1 minute or more. Then operate the suspected malfunctioning system and drive the vehicle at 60 km/h (37 mph) or more for 5 minutes or more.
- After the repair, perform the CAN bus check and check that all the ECUs and sensors connected to the CAN communication system are displayed as normal.

  Click here INFO

HINT:

- Before disconnecting related connectors for inspection, push in on each connector body to check that the connector is not loose or disconnected.
- When a connector is disconnected, check that the terminals and connector body are not cracked, deformed or corroded.

PROCEDURE

1.	**CHECK FOR OPEN IN CAN BUS WIRE (REAR TELEVISION CAMERA ASSEMBLY BRANCH WIRE)**

(a) Disconnect the cable from the negative (-) battery terminal.

(b) Disconnect the U32 rear television camera assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(U32)
Click Connector(U32)

Click Connector(U32)
Click Connector(E170)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U32-4 (CB+) - E170-2 (CB+)	Always	Below 1 Ω
U32-3 (CGND) - E170-1 (CGND)	Always	Below 1 Ω
U32-4 (CB+) or E170-2 (CB+) - Body ground	Always	10 kΩ or higher
U32-3 (CGND) or E170-1 (CGND) - Body ground	Always	10 kΩ or higher

OK ▶ **GO TO PARKING ASSIST MONITOR SYSTEM**

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

- Inspect the fuses for circuits related to this system before performing the following procedure.
- Before measuring the resistance of the CAN bus, turn the ignition switch off and leave the vehicle for 1 minute or more without operating the key or any switches, or opening or closing the doors. After that, disconnect the cable from the negative (-) battery terminal and leave the vehicle for 10 minutes or more before measuring the resistance.
- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) battery terminal.

  Click here INFO
- When disconnecting and reconnecting the battery.

  HINT:

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

  Click here INFO
- Some parts must be initialized and set when replacing or removing and installing parts.

  Click here INFO
- After performing repairs, perform the DTC check procedure and confirm that the DTCs are not output again.

  DTC check procedure: Turn the ignition switch to ON and wait for 1 minute or more. Then operate the suspected malfunctioning system and drive the vehicle at 60 km/h (37 mph) or more for 5 minutes or more.
- After the repair, perform the CAN bus check and check that all the ECUs and sensors connected to the CAN communication system are displayed as normal.

  Click here INFO

HINT:

- Before disconnecting related connectors for inspection, push in on each connector body to check that the connector is not loose or disconnected.
- When a connector is disconnected, check that the terminals and connector body are not cracked, deformed or corroded.

PROCEDURE

1.	**CHECK FOR OPEN IN CAN BUS WIRE (STEREO COMPONENT EQUALIZER ASSEMBLY BRANCH WIRE)**

(a) Disconnect the cable from the negative (-) battery terminal.

(b) Disconnect the L15 stereo component equalizer assembly connector.

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

Standard Resistance:

EWD INFO

Click Location & Routing(L15)
Click Connector(L15)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L15-1 (CANH) - L15-15 (CANL)	Cable disconnected from negative (-) battery terminal	54 to 69 Ω

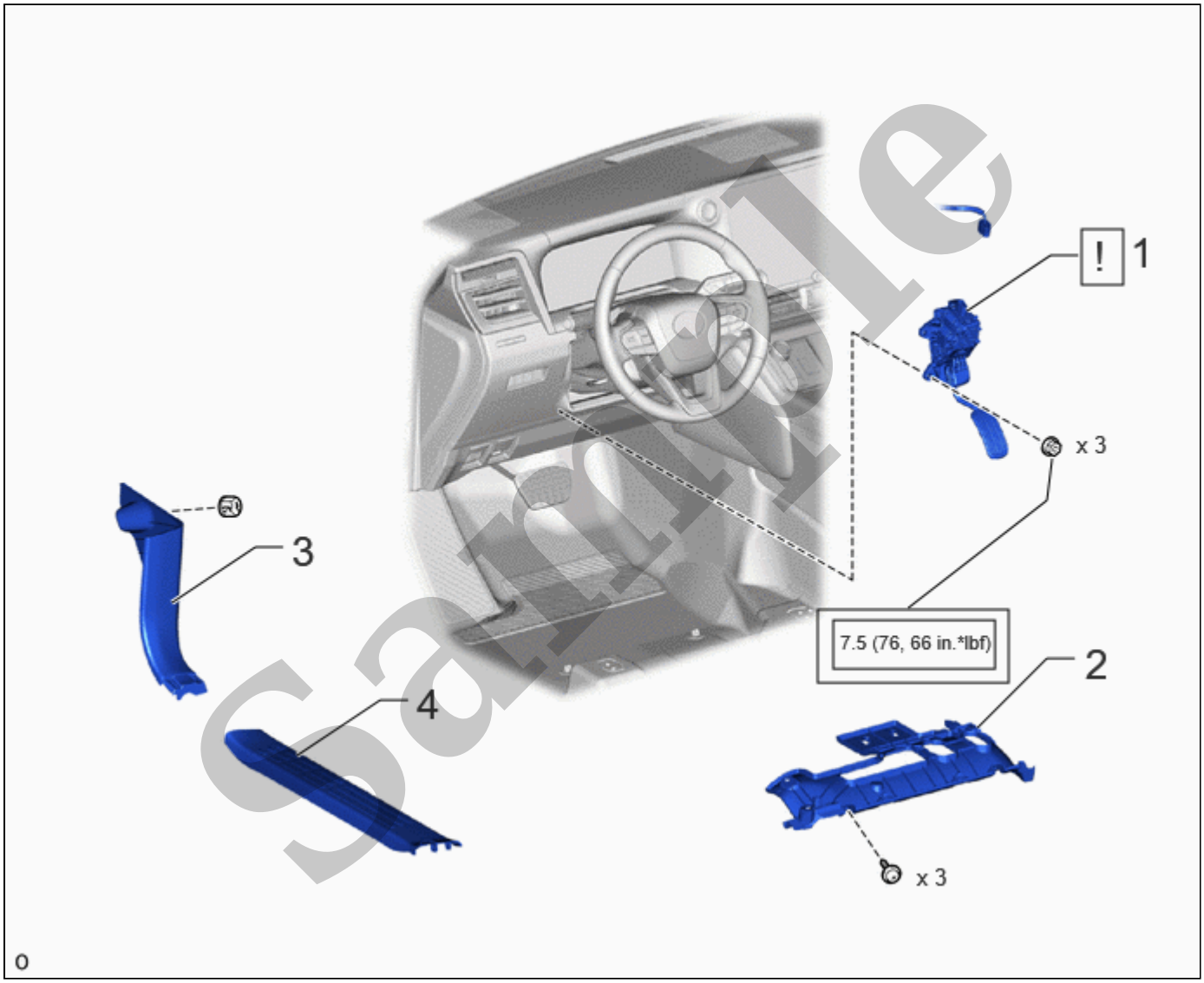
NG ▶ **REPAIR OR REPLACE CAN BRANCH WIRE OR CONNECTOR**

Last Modified: 10-07-2024	6.11:8.1.0	**Doc ID:** RM100000002HAFG
Model Year Start: 2024	**Model:** GX550	**Prod Date Range:** [12/2023 -]
Title: V35A-FTS (ENGINE CONTROL): ACCELERATOR PEDAL: INSTALLATION; 2024 MY GX550 [12/2023 -]		

INSTALLATION

CAUTION / NOTICE / HINT

COMPONENTS (INSTALLATION)



	PROCEDURE	PART NAME CODE			
1	ACCELERATOR PEDAL SENSOR ASSEMBLY	78110L	INFO	-	-
2	NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY	55606	-	-	-
3	COWL SIDE TRIM BOARD LH	62112	-	-	-
4	FRONT DOOR SCUFF PLATE LH	67914B	-	-	-