

■ DIAGNOSIS FUNCTION

1. General

- If the airbag sensor assembly detects a malfunction in the SRS airbag system, the airbag sensor assembly stores the malfunction data in memory, in addition to illuminating the SRS warning light. Then, the DTCs (Diagnostic Trouble Codes) can be accessed by connecting an intelligent tester II to the DLC3 terminal or the SST (09843-18040) to the Tc and CG terminals of the DLC3 and reading the blinking of the SRS warning light. For details, see the LEXUS RX400h Repair Manual (Pub. No. RM1139E).
- Electrical connection check mechanism to detect the connection condition of the connector in the airbag sensor assembly is used.
- If the SRS Airbag deploys, the airbag sensor assembly will turn on the SRS airbag warning light. However, different from the ordinary diagnosis function, a DTC will not be memorized. The airbag warning light can be turned off only by changing the airbag sensor assembly to a new one.

2. Electrical Connection Check Mechanism

- This mechanism is composed from the terminals for diagnosis arranged for each of 3 connectors of the airbag sensor assembly side and the disconnection detection pin arranged for each of 3 connectors of wiring harness side.
- The disconnection detection pin connects with the diagnosis terminals when the connector housing lock is completely locked.
- When these connectors are connected (the connector housing lock is completely locked), the terminals for diagnosis and the disconnection detection pin will be similarly connected. As a result, a series circuit is created. Upon detecting this condition, the airbag sensor assembly will determine that these connectors are completely locked.

When these connectors are partially connected (the connector housing lock is not completely locked), the terminals for diagnosis and the disconnection detection pin will not be connected. As a result, the series circuit is not created, and the electrical connection check circuit voltage changes to 0 V. Upon detecting this condition, the airbag sensor assembly will determine that these connectors are partially connected, and will cause the SRS warning light to illuminate. At this time, output the DTC (B1135/24).

