

DIAGNOSIS SYSTEM

1. INSPECT THE BATTERY VOLTAGE

Battery voltage:

11 to 14 V

If the voltage is below 11 V, recharge the battery before proceeding.

2. CHECK DLC3

The vehicle's suspension control ECU uses ISO 9141-2 for communication. The terminal arrangement of DLC3 complies with SAE J1962 and matches the ISO 9141-2 format.

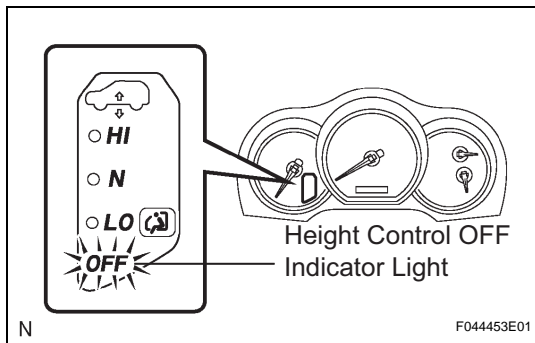
Verify the conditions listed in the table below:

Terminal No.	Disc.	Connection / Voltage or Resistance	Condition
7	SIL	Bus + Line / Pulse generation	During transmission
4	CG	Chassis Ground to Body Ground / 1 Ω or less	Always
16	BAT	Battery Positive to Body Ground / 10 to 14 V	Always

HINT:

If the intelligent tester display shows **UNABLE TO CONNECT TO VEHICLE** when the cable of the intelligent tester is connected to DLC3, the ignition switch is turned to the ON position and the tester is operated, there is a problem on the vehicle side or tester side.

- If communication is normal when the tester is connected to another vehicle, inspect DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tester itself, so consult the Service Department listed in the tester's instruction manual.



3. INDICATOR LIGHT

- (a) During the vehicle height control operation, the height control OFF indicator light blinks when there is any malfunction in the Air Suspension System.

NOTICE:

- **When the malfunction has been corrected, the height control OFF indicator light does not come on.**
- **The height control OFF indicator light does not illuminate when all problems occur (See page SC-23) for the items that make the height control OFF indicator light comes on.**

4. DTCs (NORMAL MODE)

- (a) DTCs are memorized in the suspension control ECU and read by the blinks of the height control OFF indicator light or using the intelligent tester (See page SC-28) for the procedure of DTCs check.

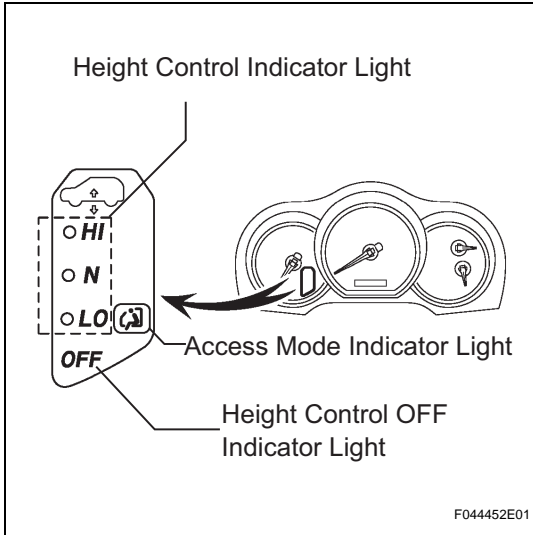
5. TEST MODE

- (a) By switching from normal mode into test mode (input signal check), you can inspect the stop light switch assembly, rear speed sensor, height control switch, height control OFF switch, engine speed signal, access mode switch.

6. CHECK INDICATOR LIGHT

- (a) Turn the ignition switch to the ON position.
- (b) Check that the height control OFF indicator light, height control indicator light and the access mode indicator light come on for 2 sec.

If the indicator check result is not normal, proceed to the troubleshooting for the indicator light circuit.



Trouble Area	See procedure
Height control indicator light circuit	SC-102
Height control OFF indicator light circuit	SC-104

DTC CHECK / CLEAR

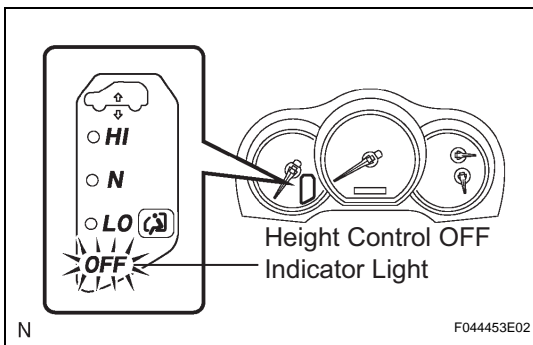
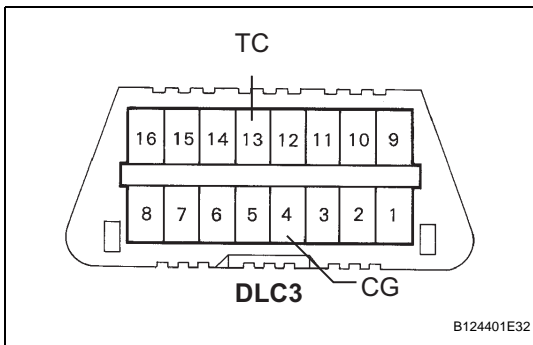
1. DTC CHECK (USING SST CHECK WIRE)

- (a) Check DTCs.
 - (1) Using the SST(s), connect terminals TC and CG of DLC3.
 - SST 09843-18040**
 - (2) Turn the ignition switch to the ON position.

- (3) Read and record any DTCs from the height control OFF indicator light on the combination meter. Refer to the illustration on the left for examples of a normal code and codes 13 and 33.

HINT:

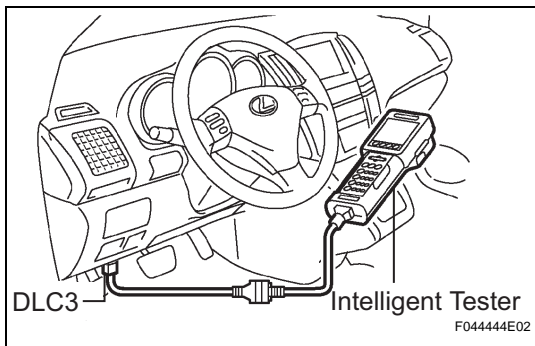
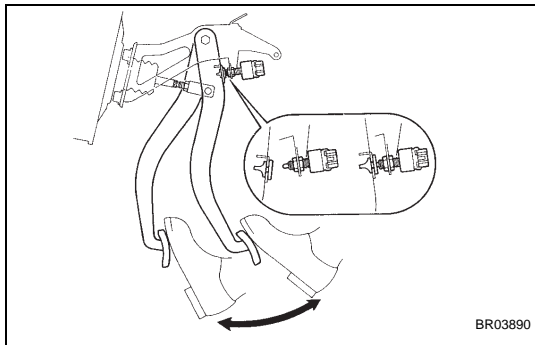
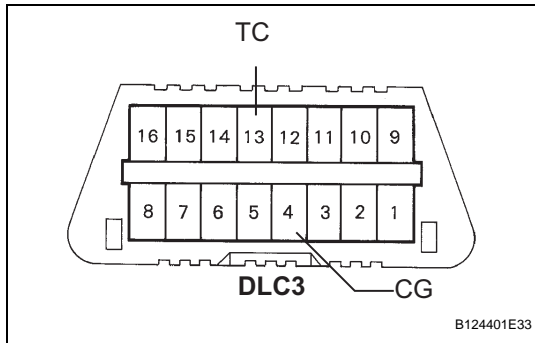
- If the height control OFF indicator light does not blink any DTC codes or the normal code, inspect the height control OFF indicator light circuit or TC terminal circuit.



Trouble Area	See procedure
Height control OFF indicator light circuit	SC-104
TC terminal circuit	SC-106

- If 2 or more malfunctions are indicated at the same time, the lowest numbered DTC is displayed first.

- (4) Refer to the Diagnostic Trouble Code Chart (See page SC-32) for DTC information.



- (5) After completing the check, remove the SST(s) from DLC3.

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- (b) Clear the DTCs.
- (1) Make sure the ignition switch is OFF.
 - (2) Using the SST(s), connect terminals TC and CG of DLC3.

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- (3) Turn the ignition switch to the ON position.

- (4) Clear the DTCs stored in the ECU by depressing the brake pedal 8 times or more within 5 sec.
- (5) Check that the height control OFF indicator light blinks a normal code.

HINT:

If the fault has not been repaired, the DTC code may still be displayed.

- (6) Turn the ignition switch to the OFF position.
- (7) Remove SST(s) from DLC3.

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HINT:

Disconnecting the battery cable during the operation will not erase DTCs in the ECU.

2. DTC CHECK (USING INTELLIGENT TESTER)

- (a) Check DTCs.
- (1) Connect the intelligent tester to DLC3.
 - (2) Turn the ignition switch to the ON position.
 - (3) Read the DTCs by following the prompts on the tester screen.

HINT:

Refer to the intelligent tester operator's manual for further details.

- (b) Clear the DTCs using the intelligent tester.

HINT:

After repairing the malfunctions, clear the DTC.

- (1) Connect the intelligent tester to DLC3.
- (2) Turn the ignition switch to the ON position.
- (3) Erase the DTCs following the prompts on the tester screen.

HINT:

Refer to the intelligent tester operator's manual for further details.