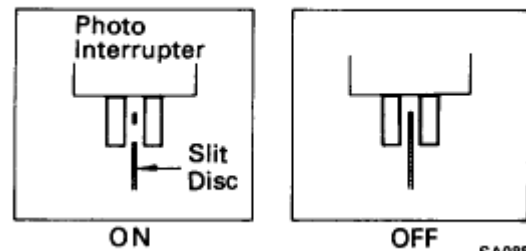
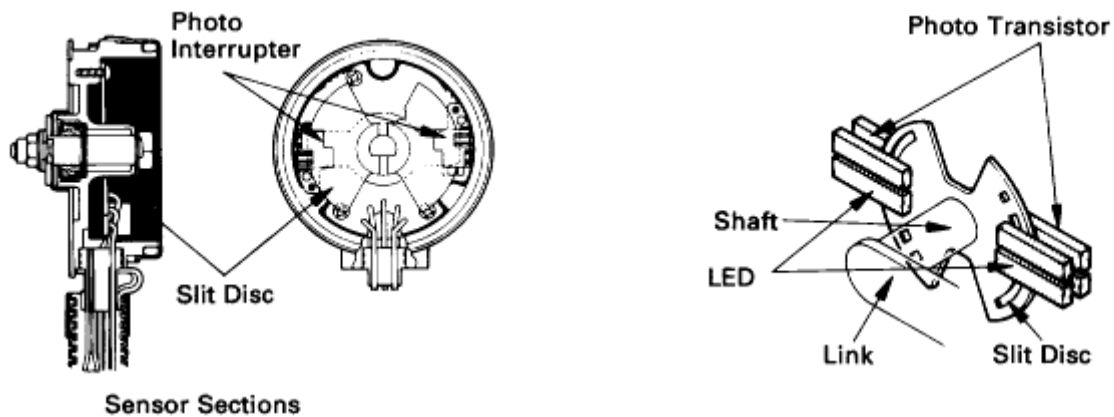


DTC 13 - RIGHT REAR HEIGHT CONTROL SENSOR CIRCUIT

CIRCUIT DESCRIPTION

A height control sensor is fitted to each suspension and continuously monitors the distance between the body and the suspension lower arm to detect the vehicle height as well as the displacement volume of the suspension caused by road unevenness.



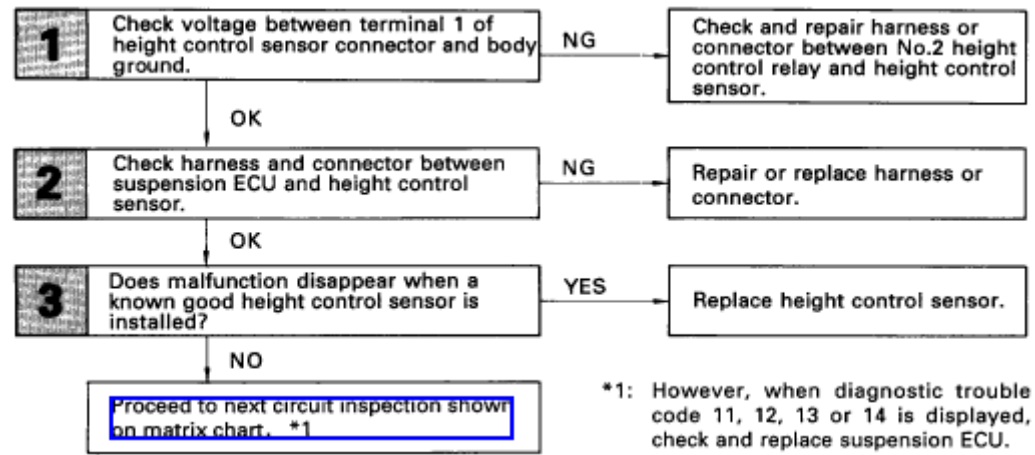
SA0855 SA0856
SA0851

Each sensor consists of a slit disc that rotates with the link as a unit and four pairs of photo interrupters. The slit disc rotates between the LED and the photo transistor of each photo interrupter, as does the slit of the steering sensor. The height control sensor detects the vehicle height in 16 steps by the output combinations of the on/off signals of the photo interrupters, converts them into serial data and sends the data to the ECU.

DTC No. *1	Diagnosis	Trouble Area
11 12 13 14	Open or short circuit in height control sensor circuit.	<ul style="list-style-type: none"> • Harness or connector between ECU and height control sensor. • Height control sensor. • ECU

*1: Code 11 corresponds to the front RH height control sensor circuit.
Code 12 corresponds to the front LH height control sensor circuit.
Code 13 corresponds to the rear RH height control sensor circuit.
Code 14 corresponds to the rear LH height control sensor circuit.

Once the ECU stores diagnostic trouble code 11, 12, 13 or 14 in memory, vehicle height control, damping force and spring rate control are not carried out until a normal signal is input to the ECU from the height control sensor. However, control is resumed if the [ignition switch](#) is turned off, then on again.



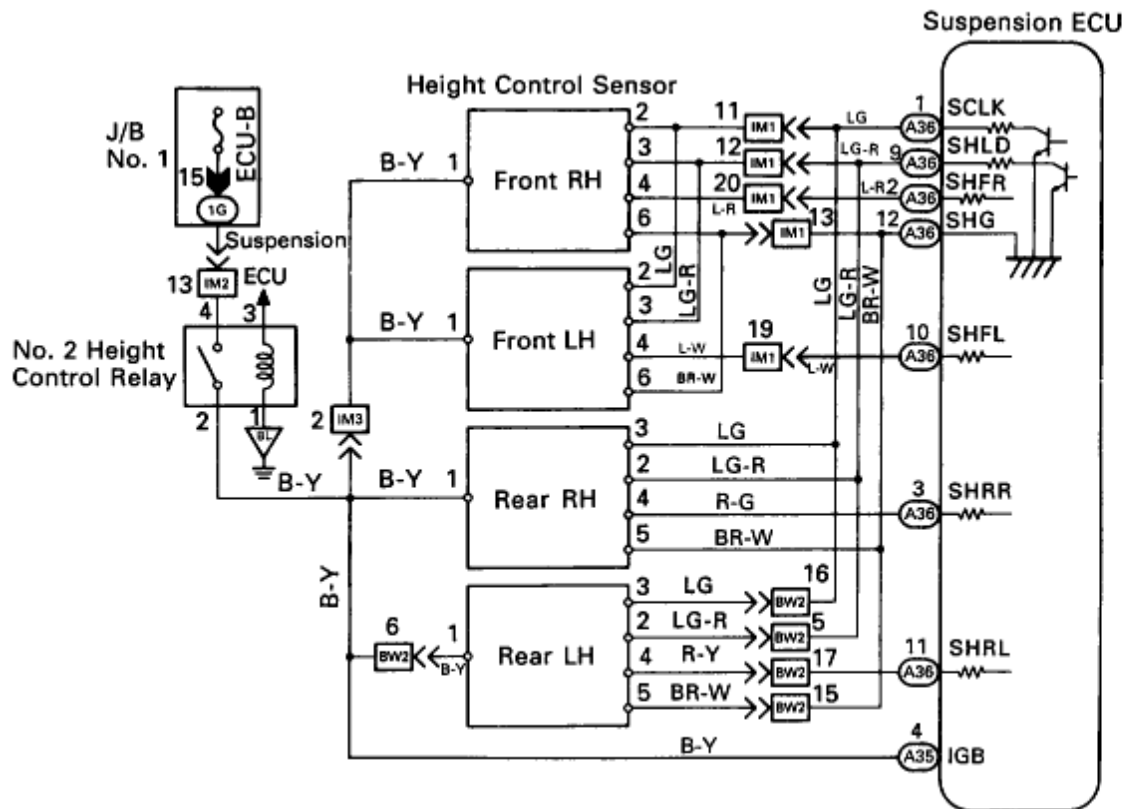
DIAGNOSTIC CHART

HINT 1:

- When diagnostic trouble code 11 is displayed, check Front RH height control sensor circuit.
- When diagnostic trouble code 12 is displayed, check Front LH height control sensor circuit.
- When diagnostic trouble code 13 is displayed, check Rear RH height control sensor circuit.
- When diagnostic trouble code 14 is displayed, check Rear LH height control sensor circuit.

HINT 2:

- Perform inspection from step [1] when diagnostic trouble code 11, 12, 13 or 14 is displayed, and from step L3] when diagnostic trouble code 11, 12, 13 or 14 is not displayed.



R05444

WIRING DIAGRAM

1 Check voltage between terminal 1 of height control sensor connector and body ground.

ON IG ON

Disconnect

Front Rear

8E3B41
R04B51

P For the front height control sensor,
 (1) Remove the front tire.
 (2) Disconnect the height control sensor connector.
 (3) Turn ignition switch on.

For the rear height control sensor,
 (1) Remove the luggage compartment trim front cover.
 (2) Disconnect the height control sensor connector.
 (3) Turn ignition switch on.

C Measure voltage between terminal 1 of height control sensor connector and body ground.

OK Voltage: **Battery voltage**

OK

NG Check and repair harness or connector between No.2 height control relay and height control sensor.

Step 1

2	Check harness and connector between suspension ECU and height control sensor.
OK	NG Repair or replace harness or connector.

Step 2

3	Does malfunction disappear when a known good height control sensor is installed?
NO	YES Replace height control sensor.

Proceed to next circuit inspection shown on matrix chart. *1

*1: However, when diagnostic trouble code 11, 12, 13 or 14 is displayed, check and replace suspension ECU.

Step 3

INSPECTION PROCEDURE

HINT 1:

- When diagnostic trouble code 11 is displayed, check Front RH height control sensor circuit.
- When diagnostic trouble code 12 is displayed, check Front LH height control sensor circuit.
- When diagnostic trouble code 13 is displayed, check Rear RH height control sensor circuit.
- When diagnostic trouble code 14 is displayed, check Rear LH height control sensor circuit.

HINT 2:

- Perform inspection from step [1] when diagnostic trouble code 11, 12, 13 or 14 is displayed, and from step [3] when diagnostic trouble code 11, 12, 13 or 14 is not displayed.