DI1H5-13

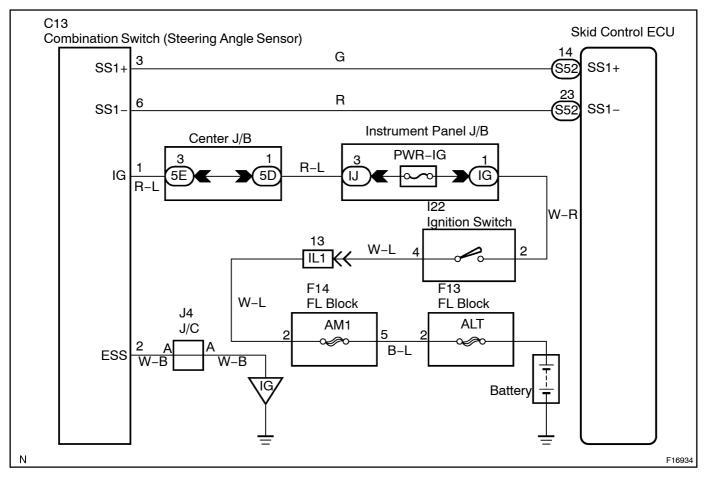
DTC C1231 / 31, C1335 / 35 S

# **Steering Angle Sensor Circuit**

## **CIRCUIT DESCRIPTION**

DTC No.	DTC Detecting Condition	Trouble Area
C1231 / 31	The condition that the data is not transmitted to the steering angle sensor continues for more than 1.2 sec.	Steering angle sensor
C1335 / 35	When the ECU IG1 terminal voltage is 9.5 V or more, data transmission from the steering angle sensor is impossible for 1 sec. or more.	

## **WIRING DIAGRAM**



### INSPECTION PROCEDURE

#### HINT:

Start the inspection from step 1 in case of using the hand-held tester and start from step 3 in case of not using the hand-held tester.

1 Cr

Check output value of the steering angle sensor.

#### PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch to ON and push the hand-held tester main switch to ON.
- (c) Select the DATALIST mode on the hand-held tester.
- (d) Drive the vehicle straight forward at 35 km/h (22 mph) or more for 1 second or longer.

#### HINT:

- At this time, the zero point calibration of the steering angle sensor was memorized.
- Do not stop the engine.

#### CHECK:

Check that the steering wheel turning angle value of the steering angle sensor displayed by the hand-held tester is changing when turning the steering wheel.

#### OK:

Steering wheel turning angle value must be changing.

OK Go to step 3.

NG

2

Replace the skid control ECU and check whether or not the trouble occurs again.

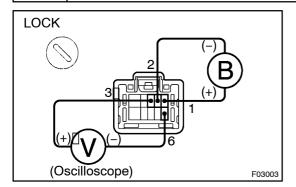
YES

Replace steering angle sensor.

NO

**END** 

3 | Check[steering[angle[sensor.

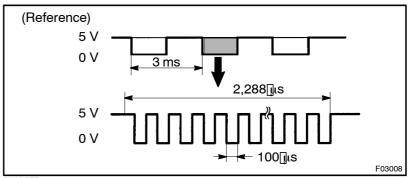


#### PREPARATION:

- (a) Remove[the[steering[wheel[bwer[No.[2]and[No.[3]covers, steering[wheel[bad,[steering[wheel,[column[upper[and lower[covers.]
- (b) Disconnect the connector from the steering angle sensor.
- (c) Connect he oscilloscope of heterminals fand of of the combination witch connector for teering angle sensor).
- (d) Apply battery voltage between terminals and 2.

#### **CHECK:**

Turn[the[steering[wheel[slowly@and[check[the[signal[waveform. OK:



HINT:

The above signal waveform does not nepeat ON and OFF negularly and this combination changes according to the data.



Replace steering angle sensor.

OK

4□

Check[for[open[and[short[circuit[]n[harness[and[connector[between[steering angle[sensor[and[skid[control[ECU[[See[page[]N-31]].

NG

Repair or replace harness or connector.

ΟK

Check and replace skid control ECU.