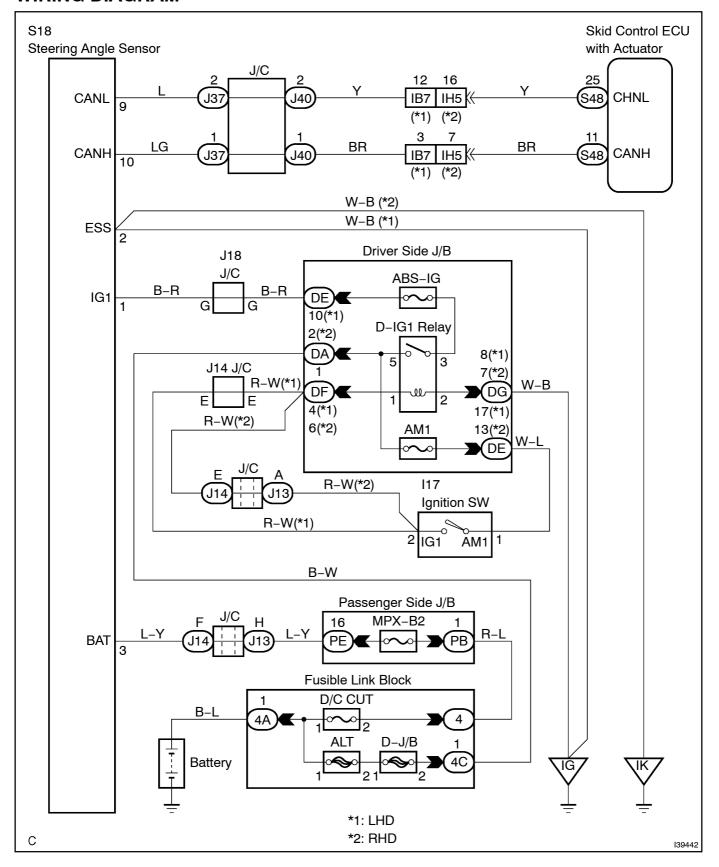
DTC	C1231/31	MALFUNCTION IN STEERING ANGLE SENSOR CIRCUIT	
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CIRCUIT DESCRIPTION

The steering angle sensor signal is sent to the skid control ECU through the CAN communication system. When there is a malfunction in the communication, it will be detected by the diagnosis function.

DTC No.	DTC Detecting Condition	Trouble Area
C1231/31	When ECU IG1 terminal voltage is 9.5 V or more, the steering angle sensor malfunction signal is received.	Steering angle sensor Steering angle sensor circuit Steering angle sensor power supply CAN communication system

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- When U0121/94, U0123/62, U0124/95 or U0126/63 are output ogether with C1231/31, on spect and repair the rouble areas indicated by U0121/94, U0123/62, U0124/95 or U0126/63 first.
- When the speed sensor or the yaw the sensor has trouble, to TCs for the steering angle sensor may be output even when the steering angle sensor is normal. When the speed sensor or yaw rate sensor are output to gether with other to TCs for the steering angle sensor, inspect and repair the speed sensor and yaw that sensor inspect and the number of the speed sensor.

1 | CHECK[HARNESS[AND[CONNECTOR(MOMENTARY[INTERRUPTION)

(a) Using the intelligent tester, wheck for any momentary interruption in the wire frames and connectors between the skid control ECU and the steering angle sensor see page \$05-385).

Item	Measurement <u>∏</u> tem <u>∏</u> Range <u>(</u> Display)	Normal Condition
Steering@pen	Steering[sensor[open[detection	OPEN: Mormentary Interruption

OK:

There are no momentary interruptions.



ОК

2 | READ[VALUE[OF[INTELLIGENT[TESTER]]|(STEERING[ANGLE[SENSOR[VALUE)

- (a) Connect the intelligent tester to the CDLC3.
- (b) Start the tengine.
- (c) ☐ Select The DATA LIST mode on The Intelligent Tester II.

Item	Measurement <u>∏</u> tem <u>∏</u> Range <u>∏</u> Display)	Normal Condition
Steering[Angle[Sensor	Steering[sensor/ Min.: -1152[deg,[Max.: 1150.875[deg	Left[]urn:[]ncrease Right[]urn:[Decrease

(d) Check[that[the[steering]angle[sensor[value]]] Check[that[the[steering]]] Check[that[the[steering]]

OK:

Steering angle value changes.

NGD Go[to[step[3

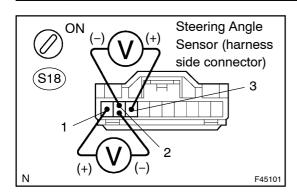
OK

REPLACE[ABS[&[TRACTION[ACTUATOR[ASSY[]SEE[PAGE[32-53]

NOTICE:

When replacing ABS & TRACTION Actuator assy, perform zero point calibration see page 5-387).

3 CHECK TERMINAL VOLTAGE(STEERING ANGLE SENSOR CONNECTOR)



- (a) Remove the steering wheel and the column lower cover.
- (b) Disconnect the steering angle sensor connector.
- (c) Turn the ignition switch to the ON position.
- (d) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S18-1 (IG1) - S18-2 (ESS)	10 to 14 V

(e) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S18-3 (BAT) - S18-2 (ESS)	10 to 14 V



OK

REPLACE STEERING ANGLE SENSOR