

2008 Scion xD

2008 BRAKES Brake Control - xD

OK: Go to next step

9. INSPECT FRONT SPEED SENSOR

- a. Install the front speed sensor.
- b. Make sure that there is no looseness at the locking part and the connecting part of the connectors.
- c. Disconnect the front speed sensor connector.
- d. Measure the resistance according to the value(s) in the table below.

Standard resistance:

for RH

TESTER CONNECTION SPECIFIED CONDITION CHART

Tester Connection	Condition	Specified Condition
2 (FR+) - Body ground	Always	10 kohms or higher
1 (FR-) - Body ground	Always	10 kohms or higher

for LH

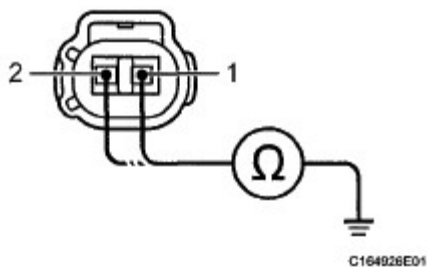
TESTER CONNECTION SPECIFIED CONDITION CHART

Tester Connection	Condition	Specified Condition
2 (FL+) - Body ground	Always	10 kohms or higher
1 (FL-) - Body ground	Always	10 kohms or higher

NOTE: Check the speed sensor signal after replacement (See TEST MODE PROCEDURE).

NG: REPLACE FRONT SPEED SENSOR (See REMOVAL)

Component without harness connected:
(Front Speed Sensor)



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Fig. 31: Measuring Resistance Between Front Speed Sensor Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK: Go to next step

10. CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - FRONT SPEED SENSOR)

- a. Disconnect the skid control ECU connector.
- b. Measure the resistance according to the value(s) in the table below.

Standard resistance:

for RH

TESTER CONNECTION SPECIFIED CONDITION CHART

Tester Connection	Condition	Specified Condition
A14-7 (FR+) - A5-2 (FR+)	Always	Below 1 ohms
A14-7 (FR+) - Body ground	Always	10 kohms or higher
A14-6 (FR-) - A5-1 (FR-)	Always	Below 1 ohms
A14-6 (FR-) - Body ground	Always	10 kohms or higher

for LH

TESTER CONNECTION SPECIFIED CONDITION CHART

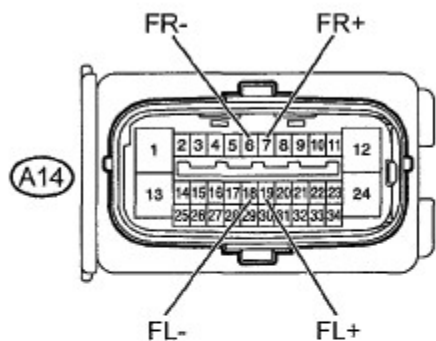
Tester Connection	Condition	Specified Condition
A14-19 (FL+) - A9-2 (FL+)	Always	Below 1 ohms
A14-19 (FL+) - Body ground	Always	10 kohms or higher
A14-18 (FL-) - A9-1 (FL-)	Always	Below 1 ohms
A14-18 (FL-) - Body ground	Always	10 kohms or higher

NG: REPAIR OR REPLACE HARNESS OR CONNECTOR

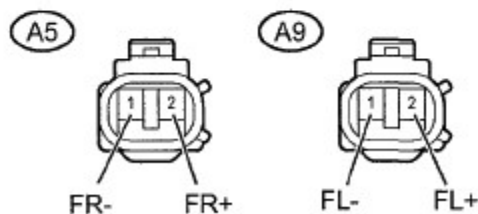
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Front view of wire harness connector:
(to Skid Control ECU)



Front view of wire harness connector:
(to Front Speed Sensor)



C17022HE01

Fig. 32: Identifying Skid Control ECU Connector Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK: Go to next step

11. INSPECT SKID CONTROL ECU (SENSOR INPUT)

- Reconnect the skid control ECU connector.
- Turn the ignition switch to ON.
- Measure the voltage according to the value(s) in the table below.

Standard voltage:

for RH

TESTER CONNECTION SPECIFIED CONDITION CHART

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Tester Connection	Switch Condition	Specified Condition
A5-2 (FR+) - Body ground	Ignition switch ON	8 to 14 V

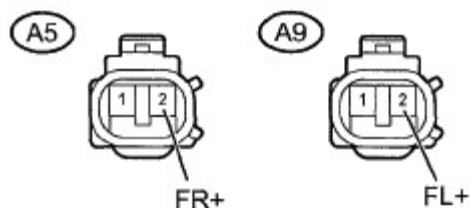
for LH

TESTER CONNECTION SPECIFIED CONDITION CHART

Tester Connection	Switch Condition	Specified Condition
A9-2 (FL+) - Body ground	Ignition switch ON	8 to 14 V

NG: REPLACE BRAKE ACTUATOR ASSEMBLY (See REMOVAL)

Front view of wire harness connector:
(to Front Speed Sensor)



C164929E01

Fig. 33: Identifying Skid Control ECU Connector Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK: Go to next step

12. REPLACE FRONT SPEED SENSOR

- Turn the ignition switch to OFF.
- Replace the front speed sensor (See REMOVAL).

NOTE: Check the speed sensor signal after cleaning or replacement (See TEST MODE PROCEDURE).

13. RECONFIRM DTC

- Clear the DTC (See DTC CHECK / CLEAR).
- Start the engine.
- Drive the vehicle at a speed of 40 km/h (25 mph) or more for at least 60 seconds.
- Check if the same DTC is recorded (See DTC CHECK / CLEAR).