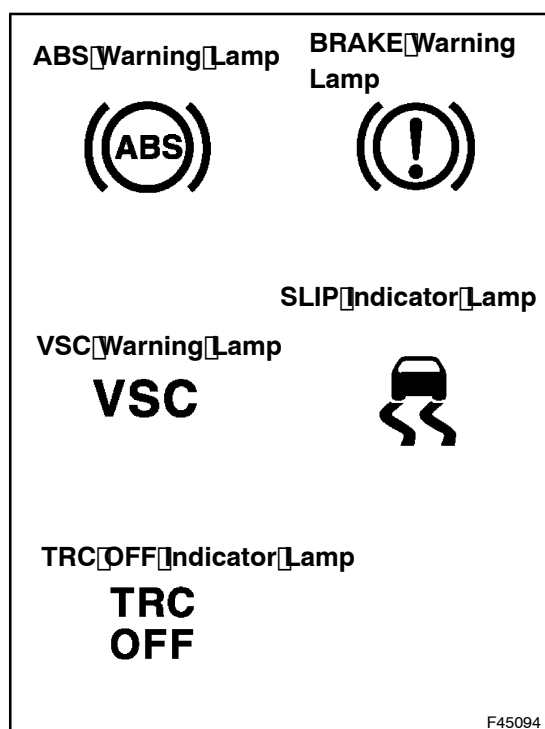


TEST MODE PROCEDURE



1. WARNING LAMP BULB CHECK

(a) Release the parking brake lever.

NOTICE:

When releasing the parking brake, set the chocks to hold the vehicle for safety.

HINT:

When the parking brake is applied or the level of the brake fluid is low, the BRAKE warning lamp comes on.

(b) When the ignition switch is turned to the ON position, check that the ABS warning lamp, VSC warning lamp, TRC OFF indicator lamp, BRAKE warning lamp and SLIP indicator lamp come on for approximately 3 seconds.

HINT:

If the indicator check result is not normal, proceed to troubleshooting for the ABS warning light circuit, VSC warning light circuit, TRC OFF indicator light circuit, BRAKE warning light circuit or SLIP indicator light circuit.

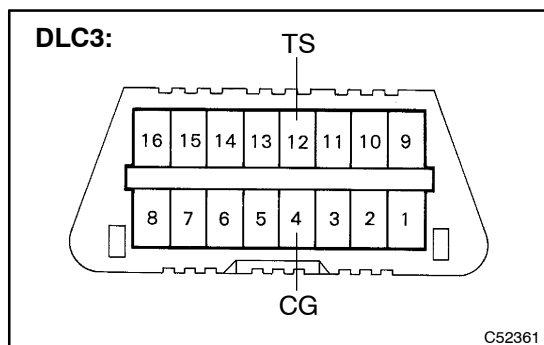
If the indicator remains on, proceed to troubleshooting for the light circuit below.

Trouble area	See page
ABS warning light circuit	05-696
BRAKE warning light circuit	05-714
VSC warning light circuit	05-705
TRC OFF indicator light circuit	05-722
SLIP indicator light circuit	05-726

2. TEST MODE (SENSOR SIGNAL CHECK)

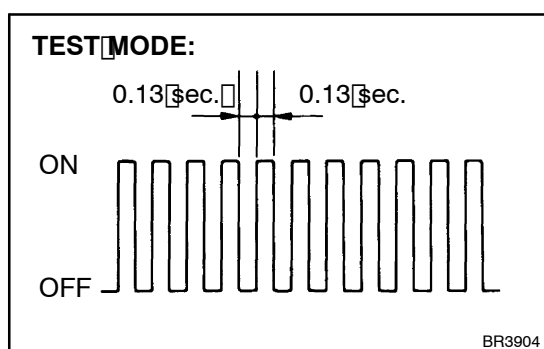
(a) Yaw rate sensor, deceleration sensor, master cylinder pressure sensor and speed sensor checks can be performed.

Check Procedure	SST (Check Wire)	Intelligent Tester II
Procedures for sensor signal check	Step 3	Step 8
Deceleration sensor	Step 4	Step 9
Master cylinder pressure	Step 5	Step 10
Speed sensor	Step 6	Step 11
Yaw rate and deceleration sensor	Step 7	Step 12



3. PROCEDURES FOR SENSOR SIGNAL CHECK (USING SST CHECK WIRE)

- Turn the ignition switch off.
- Using SST, connect terminals TS and CG of the DLC3. SST 09843-18040
- Check that the steering wheel is in the straight-ahead position.
- A/T:
Shift the shift lever to the P position.
- M/T:
Apply the parking brake.
- Turn the ignition switch to the ON position.



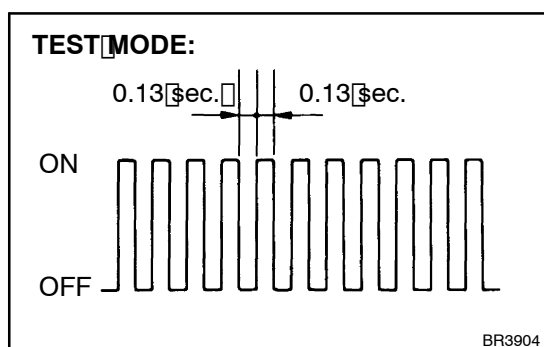
- Check that the ABS warning lamp and VSC warning lamp blink as shown in the illustration.

HINT:

If the ABS warning lamp and VSC warning lamp do not blink, inspect the ABS warning light circuit and VSC warning light circuit.

Trouble area	See page
ABS warning light circuit	05-696
VSC warning light circuit	05-705

- Start the engine.



4. DECELERATION SENSOR CHECK (USING SST CHECK WIRE)

- Check that the ABS warning lamp is blinking in TEST MODE.
- Keep the vehicle in the stationary condition on a level surface for 1 second or more.

5. MASTER CYLINDER PRESSURE SENSOR CHECK (USING SST CHECK WIRE)

- Check that the ABS warning lamp is blinking in TEST MODE.
- Leave the vehicle in a stationary condition and the brake pedal in a free condition for 1 second or more, and quickly depress the brake pedal with a force of 98 N (10 kgf, 22 lbf) or more for 1 second or more.

HINT:

At this time, the ABS warning lamp comes on for 3 seconds.

6. SPEED SENSOR CHECK (USING SST CHECK WIRE)

- (a) Check the ABS warning lamp is blinking in TEST MODE.
- (b) Start the sensor signal check.
 - (1) Drive the vehicle straight forward.
Drive the vehicle at a speed of 45 km/h (28 mph) or higher for several seconds and check that the ABS warning lamp goes off.

Test	Vehicle Speed	Check
Low speed test	3 to 5 km/h (2 to 3 mph)	Response of sensors
Middle speed test	45 km/h (28 mph) or higher	Deviations of sensor signal

HINT:

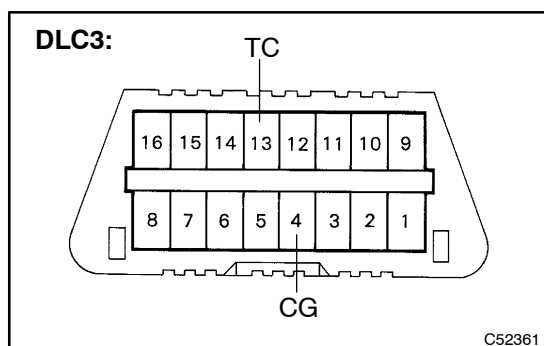
The sensor check may not be completed if the vehicle has its wheel spun or its steering wheel turned during this check.

- (2) Stop the vehicle.
- (c) Signal check results.

Check Result	ABS Warning Lamp
OK	Goes off
NG	Remains on

HINT:

If the result is NG, return to step 3.



- (d) Read the DTCs

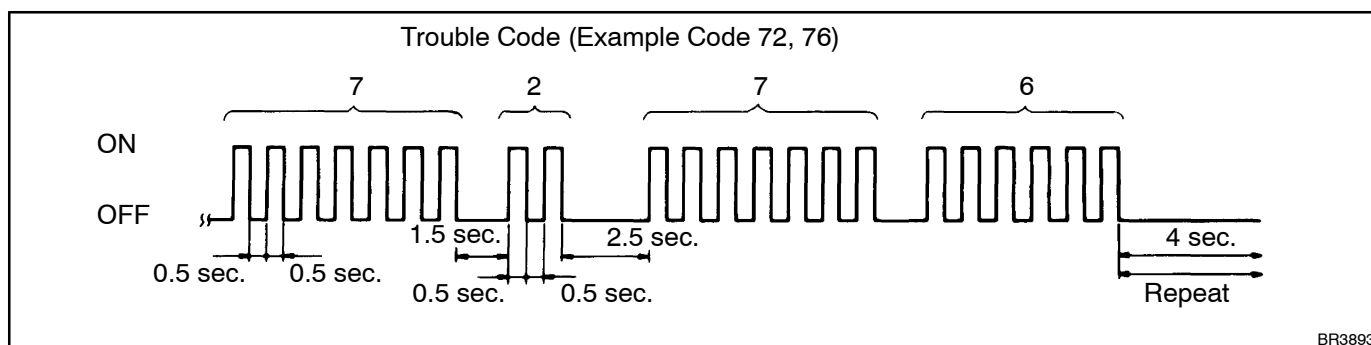
- (1) Using SST, connect terminals TC and CG of the DLC3.

SST 09843-18040

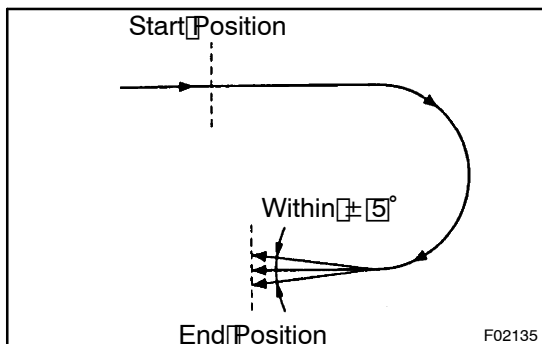
- (2) Read the number of blinks of the ABS warning lamp.

HINT:

- See the list of DTC (Refer to step 13).
- If every sensor is normal, the normal system code is output (A cycle of 0.25 seconds ON and 0.25 seconds OFF is repeated).
- If more than 1 malfunction is detected at the same time, the lowest numbered code will be displayed first.



- (3) After the check, remove the SST from terminals TC and CG, TS and CG of the DLC3.

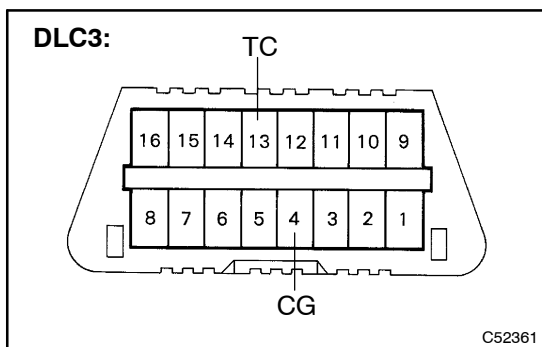


7. YAW RATE SENSOR CHECK (USING SST CHECK WIRE)

- Check that the VSC warning lamp is blinking in TEST MODE.
- Drive the vehicle at a speed of approx. 5 km/h (3 mph), turn the steering wheel either to left or right 90° or more, and maintain 180° circular drive for the vehicle.
- A/T:
Stop the vehicle and shift the shift lever to the P position.
- M/T:
Stop the vehicle and apply the parking brake.
- Check that the skid control buzzer sounds for 3 seconds.

HINT:

- If the skid control buzzer sounds, the sensor check is completed normally.
- If the skid control buzzer does not sound, check the skid control buzzer circuit (see page 05-730), then perform the sensor check again.
- If the skid control buzzer still won't sound, there is a malfunction in the yaw rate sensor, so check the DTC.
- Drive the vehicle in a 180° circle. At the end of the turn, the direction of the vehicle should be within 180° ± 5° of its start position.
- Do not spin the wheels.

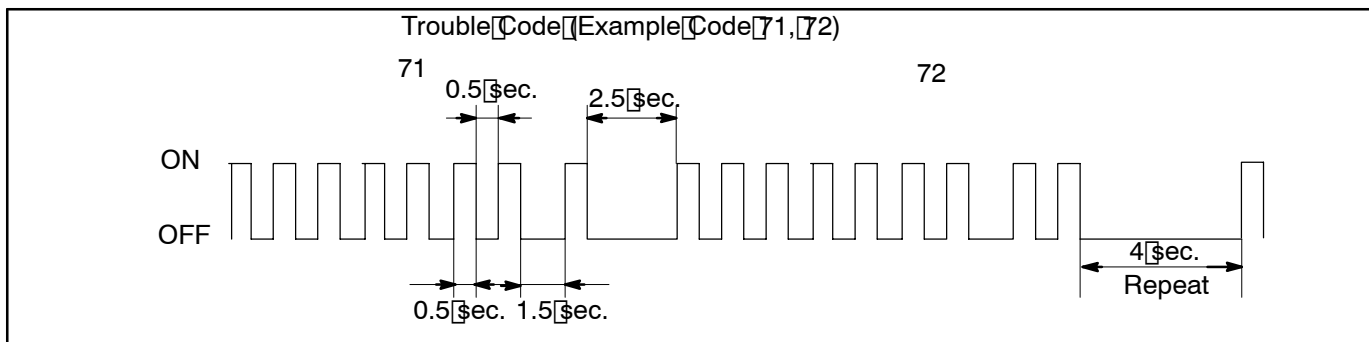


- Using SST, connect terminals TC and CG of the DLC3.
SST 09843-18040

- Read the number of blinks of the VSC warning lamp.

HINT:

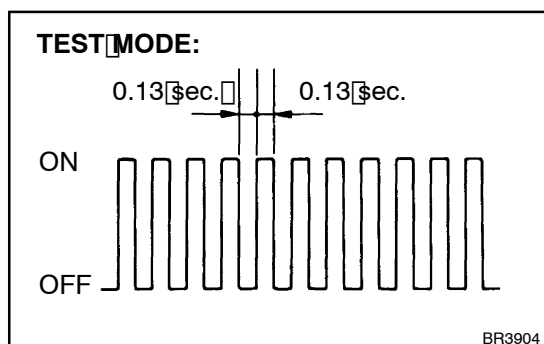
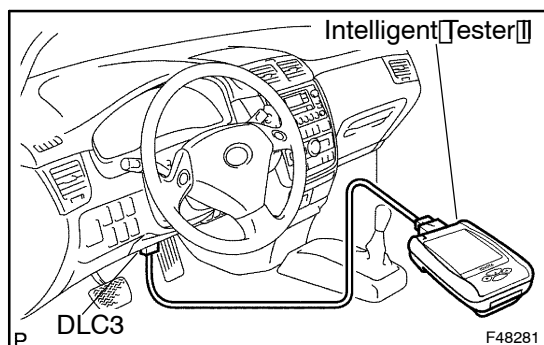
- See the list of DTC (Refer to step 13).
- If every sensor is normal, there is a normal system code output. (A cycle of 0.25 seconds ON and 0.25 seconds OFF is repeated.)
- If 2 or more malfunctions are indicated at the same time, the lowest numbered code will be displayed first.



- (h) After performing the check, disconnect the SST from terminals TS and CG, TC and CG of the DLC3 and turn the ignition switch off.

8. PROCEDURES FOR SENSOR SIGNAL CHECK (USING INTELLIGENT TESTER II)

- (a) Turn the ignition switch off.
 (b) A/T:
 Shift the shift lever to the P position.
 (c) M/T:
 Apply the parking brake.
 (d) Connect the Intelligent Tester II to the DLC3.
 (e) Turn the ignition switch to the ON position.
 (f) Select the "SENSOR SIGNAL CHECK".



- (g) Check that the ABS warning lamp and VSC warning lamp blink.

HINT:

If the ABS warning lamp and VSC warning lamp do not blink, inspect the ABS warning light circuit and VSC warning light circuit.

Trouble area	See page
ABS warning light circuit	05-696
VSC warning light circuit	05-705

- (h) Start the engine.

9. DECELERATION SENSOR CHECK (USING INTELLIGENT TESTER II)

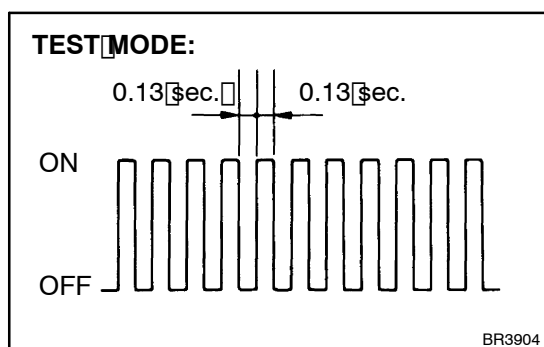
- (a) Check that the ABS warning lamp is blinking in TEST MODE.
 (b) Keep the vehicle in the stationary condition on a level surface for 1 second or more.

10. MASTER CYLINDER PRESSURE SENSOR CHECK (USING INTELLIGENT TESTER II)

- (a) Check that the ABS warning lamp is blinking in TEST MODE.
 (b) Leave the vehicle in a stationary condition and the brake pedal in a free condition for 1 second or more, and quickly depress the brake pedal with a force of 98 N (10 kgf, 22 lbf) or more for 1 second or more.

HINT:

At this time, the ABS warning lamp comes on for 3 seconds.



11. SPEED SENSOR CHECK (USING INTELLIGENT TESTER II)

- (a) Check that the ABS warning lamp is blinking in TEST MODE.
- (b) Start the sensor signal check.
- (1) Drive vehicle straight forward.
Drive the vehicle at a speed of 45 km/h (28 mph) or higher for several seconds and check that the ABS warning lamp goes off.

Test	Vehicle Speed	Check
Low speed test	3 to 5 km/h (2 to 3 mph)	Response of sensors
Middle speed test	45 km/h (28 mph) or higher	Deviations of sensor signal

HINT:

The sensor check may not be completed if the vehicle has its wheel spun or its steering wheel turned during this check.

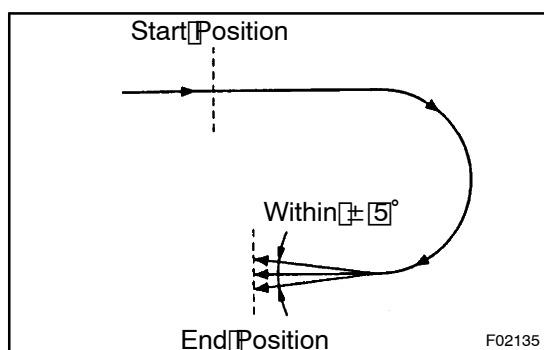
- (2) Stop the vehicle.
- (c) Signal check results.

Check Result	ABS Warning Lamp
OK	Goes off
NG	Remains on

- (d) Read the DTCs.

12. YAW RATE SENSOR CHECK (USING INTELLIGENT TESTER II)

- (a) Check that the VSC warning lamp is blinking in TEST MODE.



- (b) Drive the vehicle at a speed of approximately 5 km/h (3 mph), turn the steering wheel either to left or right 90° or more, and maintain the vehicle in a 180° circular drive.
- (c) A/T:
Stop the vehicle and shift the shift lever to the P position.
- (d) M/T:
Stop the vehicle and apply the parking brake.
- (e) Check that the skid control buzzer sounds for 3 seconds.

HINT:

- If the skid control buzzer sounds, the sensor check is completed normally.
 - If the skid control buzzer does not sound, check the skid control buzzer circuit (see page 05-730), then perform the sensor check again.
 - If the skid control buzzer still does not sound, there is a malfunction in the yaw rate sensor, so check the DTC.
 - Make a 180° turn. At the end of the turn, the direction of the vehicle should be within 180° ± 5° of its start position.
 - Do not spin the wheels.
- (f) Read the DTCs (Refer to step 13).

13. DTC of sensor check function:

Code No.	Diagnosis	Trouble Area
C1271/71	Low output voltage of right front speed sensor	<ul style="list-style-type: none"> • Right front speed sensor • Sensor installation • Sensor rotor
C1272/72	Low output voltage of left front speed sensor	<ul style="list-style-type: none"> • Left front speed sensor • Sensor installation • Sensor rotor
C1273/73	Low output voltage of right rear speed sensor	<ul style="list-style-type: none"> • Right rear speed sensor • Sensor installation • Sensor rotor
C1274/74	Low output voltage of left rear speed sensor	<ul style="list-style-type: none"> • Left rear speed sensor • Sensor installation • Sensor rotor
C1275/75	Abnormal change in output voltage of right front speed sensor	Right front sensor rotor
C1276/76	Abnormal change in output voltage of left front speed sensor	Left front speed sensor rotor
C1277/77	Abnormal change in output voltage of right rear speed sensor	Right rear sensor rotor
C1278/78	Abnormal change in output voltage of left rear speed sensor	Left rear speed sensor rotor
C1279/79	Deceleration sensor is faulty	<ul style="list-style-type: none"> • Deceleration sensor • Sensor installation
C1281/81	Master cylinder pressure sensor output signal is faulty	Master cylinder pressure sensor
C0371/71	Yaw rate sensor output signal malfunction	Yaw rate sensor

HINT:

The codes in this table are output only in TEST MODE.