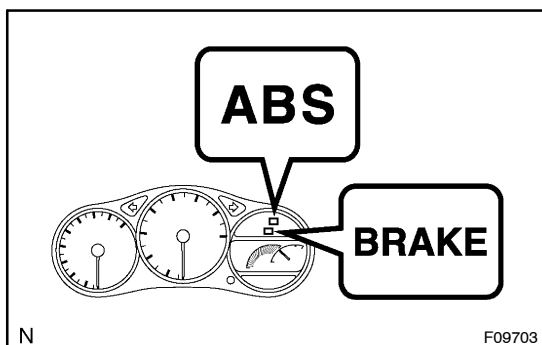




PRE-CHECK

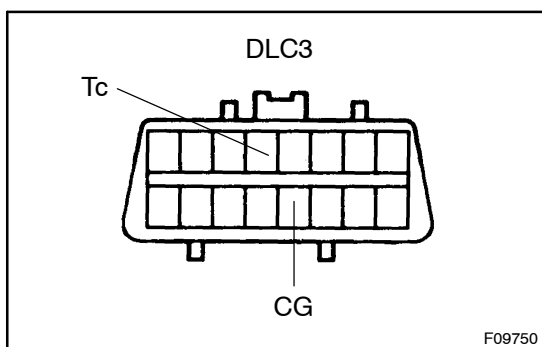
1. DIAGNOSIS SYSTEM

- (a) Release the parking brake lever.
- (b) Check the indicator.

When the ignition switch is turned ON, check that the ABS warning light and BRAKE warning light goes on for approx. 3 seconds.

HINT:

- When the parking brake is applied or the level of the brake fluid is low, the BRAKE warning light is lit.
- If the indicator check result is not normal, proceed to troubleshooting for the ABS warning light circuit or BRAKE warning light circuit (See page DI-106 or DI-109).
- (c) In case of not using hand-held tester:
Check the DTC.



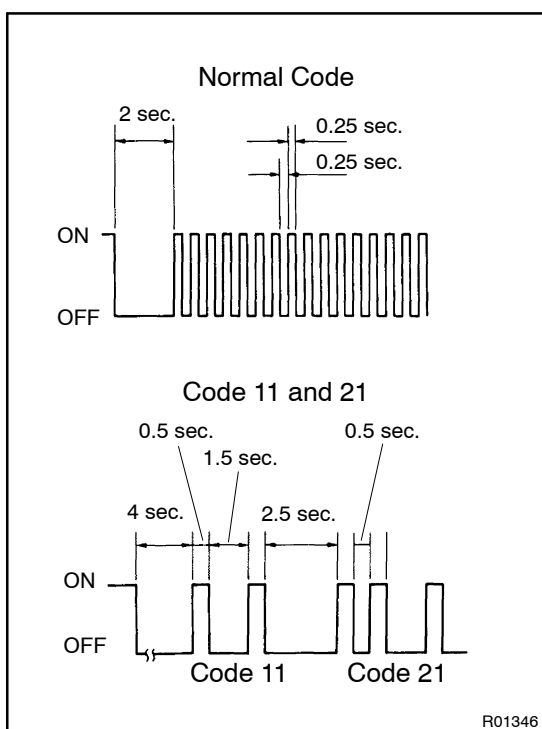
- (1) Using SST, connect terminals Tc and CG of DLC3.
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- (2) Turn the ignition switch ON.

- (3) Read the DTC from the ABS warning light on the combination meter.

HINT:

- If no code appears, inspect the diagnostic circuit or ABS warning light circuit (See page DI-111 or DI-106).

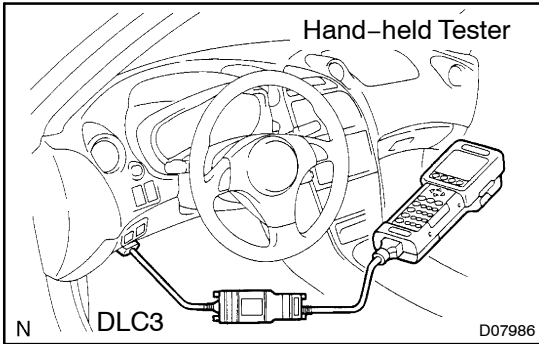


- As an example, the blinking patterns for normal code and codes 11 and 21 are shown on the left.

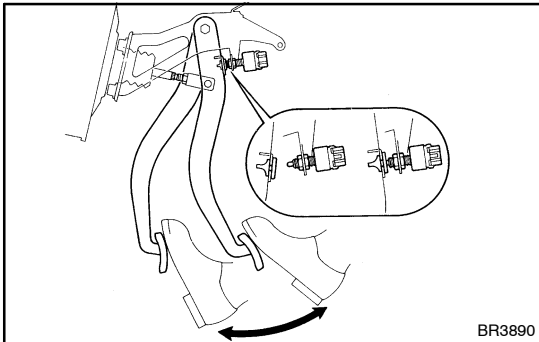
- (4) Codes are explained in the code table on page DI-72.

- (5) After completing the check, disconnect terminals Tc and E₁, and turn off the display.

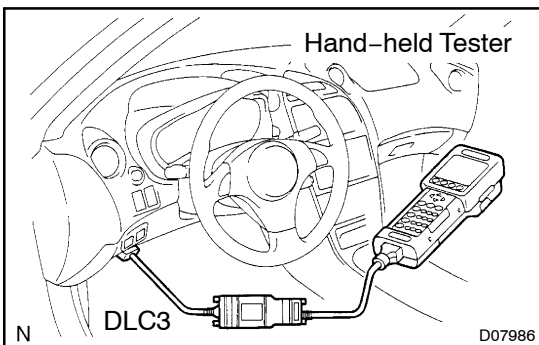
If 2 or more malfunctions are indicated at the same time the lowest numbered DTC will be displayed 1st.



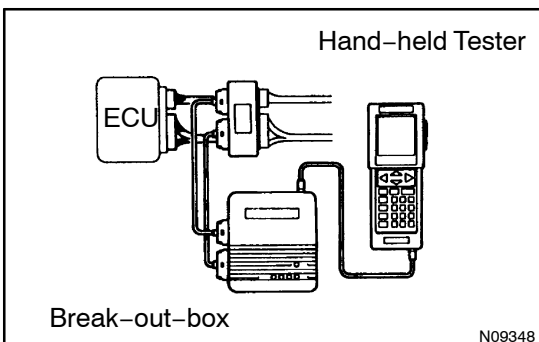
- (d) In case of using hand-held tester:
Check the DTC.
- (1) Hook up the hand-held tester to the DLC3.
 - (2) Turn the ignition switch ON.
 - (3) Read the DTC by following the prompts on the tester screen.
- Please refer to the hand-held tester operator's manual for further details.



- (e) In case of not using hand-held tester:
Clear the DTC.
- (1) Using SST, connect terminals Tc and CG of DLC3.
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 - (2) Turn the ignition switch ON.
 - (3) Clear the DTC stored in ECU by depressing the brake pedal 8 or more times within 5 seconds.
 - (4) Check that the warning light shows the normal code.
 - (5) Remove the SST from the terminals of DLC3.
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- (f) In case of using hand-held tester:
Clear the DTC.
- (1) Hook up the hand-held tester to the DLC3.
 - (2) Turn the ignition switch ON.
 - (3) Operate the hand-held tester to erase the codes.
(See hand-held tester operator's manual.)

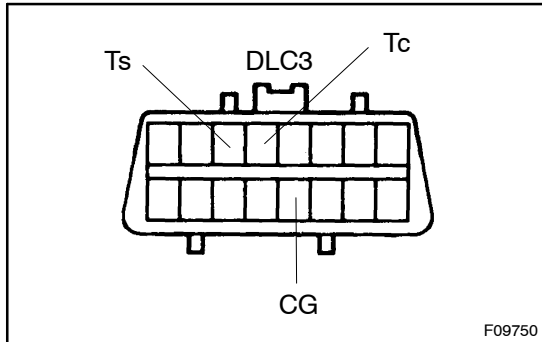


- (g) Reference:
Using break-out-box and hand-held tester, measure the ECU terminal values.
- (1) Hook up the hand-held tester and break-out-box to the vehicle.
 - (2) Read the ECU input/output values by following the prompts on the tester screen.

HINT:

Hand-held tester has a "Snapshot" function. This records the measured values and is effective in the diagnosis of intermittent problems.

Please refer to the hand-held tester/break-out-box operator's manual for further details.

**2. SPEED SENSOR SIGNAL**

(a) In case of not using hand-held tester:

Check the speed sensor signal.

(1) Turn the ignition switch OFF.

(2) Using SST, connect terminals Ts and CG of DLC3.

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(3) Start the engine.

(4) Check that the ABS warning light blinks.

HINT:

If the ABS warning light does not blink, inspect the ABS warning light circuit ([See page DI-106](#)).

(5) Drive vehicle straight forward.

HINT:

Drive vehicle faster than 45 km/h (28 mph) for several seconds.

(6) Stop the vehicle.

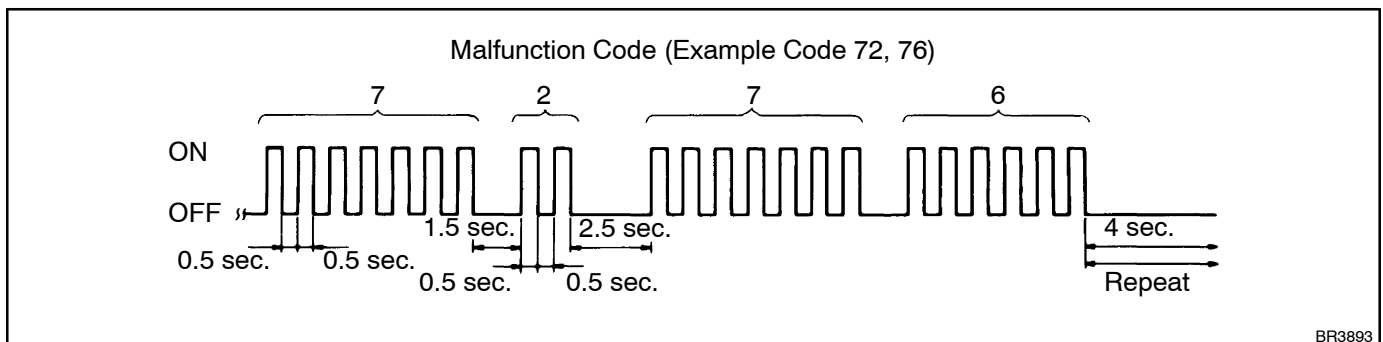
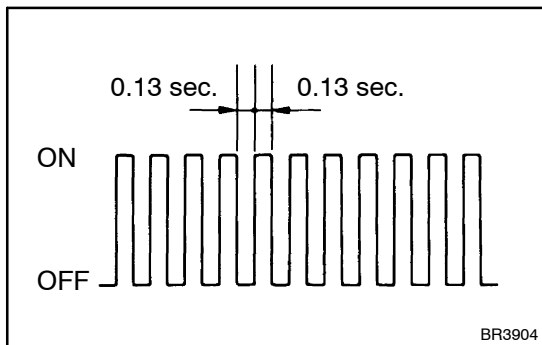
(7) Using SST, connect terminals Tc and CG of DLC3.

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(8) Read the number of blinks of the ABS warning light.

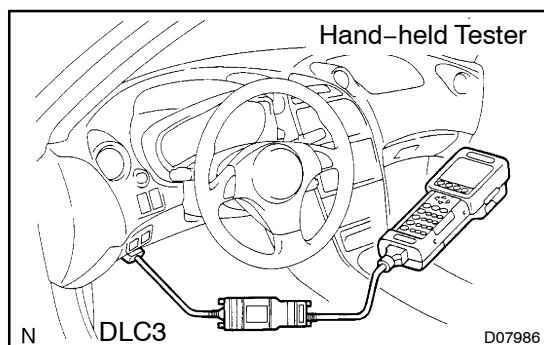
HINT:

- See the list of DTC shown on the next page.
- If every sensor is normal, a normal code is output (A cycle of 0.25 sec. ON and 0.25 sec. OFF is repeated).
- If 2 or more malfunctions are indicated at the same time, the lowest numbered code will be displayed 1st.



- (9) After doing the check, disconnect the SST from terminals Ts and CG, Tc and CG of DLC3, and turn ignition switch OFF.

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- (b) In case of using hand-held tester:

Check the DTC.

- (1) Hook up the hand-held tester to the DLC3.
- (2) Do step (3) to (6) on the previous page and this page.
- (3) Read the DTC by following the prompts on the tester screen.

Please refer to the hand-held tester operator's manual for further details.

DTC of speed sensor check function:

Code No.	Diagnosis	Trouble Area
C1271/71	Low output voltage of right front speed sensor	• Right front speed sensor • Sensor installation • Right front speed sensor rotor
C1272/72	Low output voltage of left front speed sensor	• Left front speed sensor • Sensor installation • Left front speed sensor rotor
C1273/73	Low output voltage of right rear speed sensor	• Right rear speed sensor • Sensor installation • Right rear speed sensor rotor
C1274/74	Low output voltage of left rear speed sensor	• Left rear speed sensor • Sensor installation • Left rear speed sensor rotor
C1275/75	Abnormal change in output voltage of right front speed sensor	Right front speed 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 speed sensor rotor
C1278/78	Abnormal change in output voltage of left rear speed sensor	Left rear speed sensor rotor