

PRE-CHECK

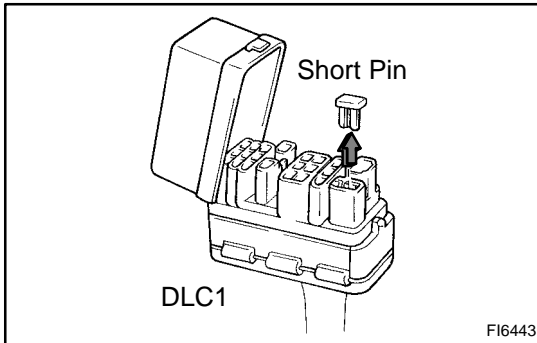
1. DIAGNOSIS SYSTEM

(a) Check the indicator.

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

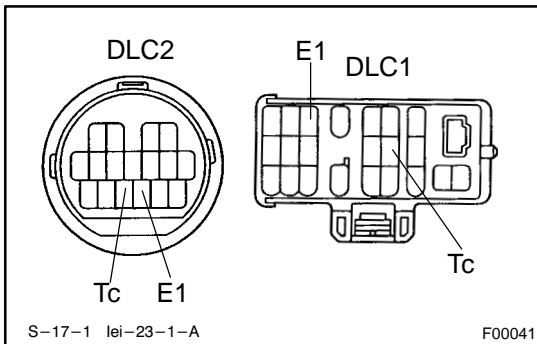
HINT:

If the indicator check result is not normal, proceed to troubleshooting for the ABS warning light circuit (See page [DI-451](#)).



(b) Check the DTC.

(1) Disconnect the short pin from DLC1.



(2) Using SST, connect terminals Tc and E₁ of DLC2 or DLC1.

SST 09843-18020

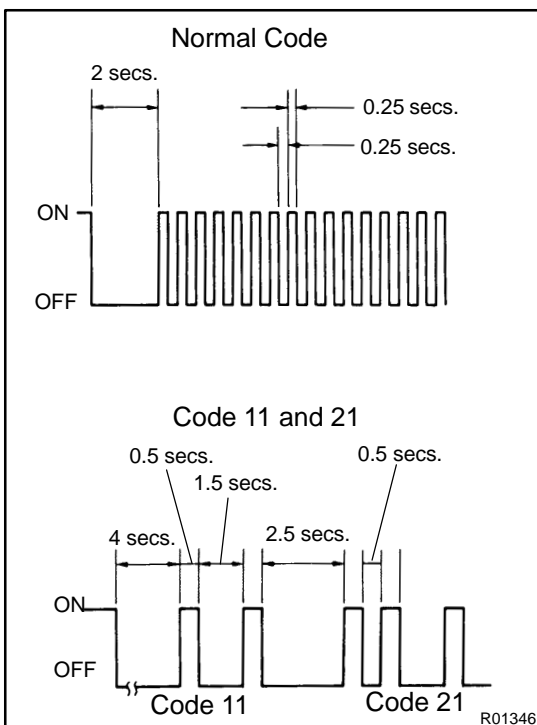
(3) Turn the ignition switch ON.

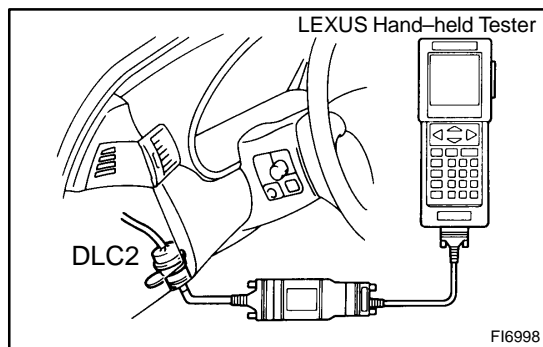
(4) Read the DTC from the ABS warning light on the combination meter.

HINT:

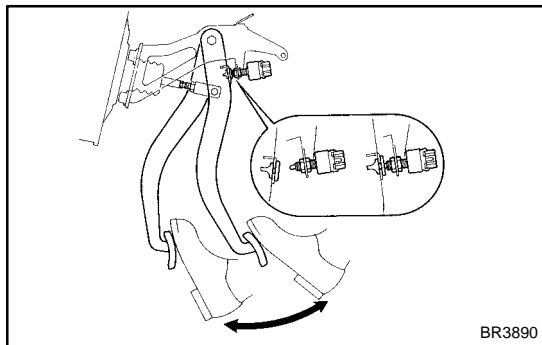
- If no code appears, inspect the diagnostic circuit or ABS warning light circuit (See page [DI-454](#) or [DI-451](#)).
- As an example, the blinking patterns for normal code and codes 11 and 21 are shown on the left.
- Codes are explained in the code table on page [DI-412](#).
- After completing the 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.





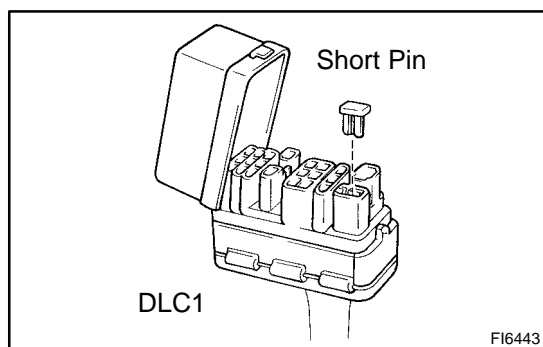
- (c) Using LEXUS hand-held tester, check the DTC.
- (1) Hook up the LEXUS hand-held tester to the DLC2.
 - (2) Read the DTC by following the prompts on the tester screen.
- Please refer to the LEXUS hand-held tester operator's manual for further details.



- (d) Clear the DTC.
- (1) Using SST, connect terminals Tc and E₁ of DLC2 or DLC1 and remove the short pin from DLC1.
- SST 09843-18020
- (2) IG switch ON.
 - (3) Clear the DTC stored in ECU by depressing the brake pedal 8 or more times within 5 seconds.

HINT:

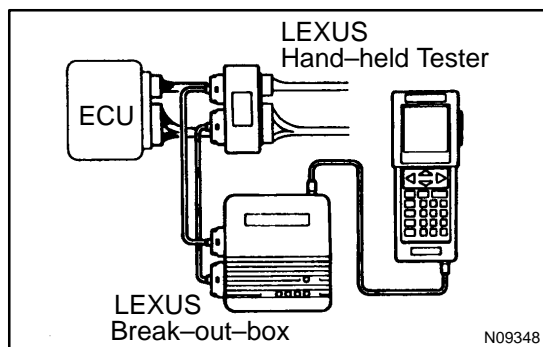
In this case, TRAC DTC are cleared.



- (4) Check that the warning light shows the normal code.
 - (5) Remove the SST from the terminals of DLC2 or DLC1.
- SST 09843-18020
- (6) Connect the short pin to DLC1.

HINT:

Disconnecting the battery cable during repairs will not erase the DTC in the ECU.

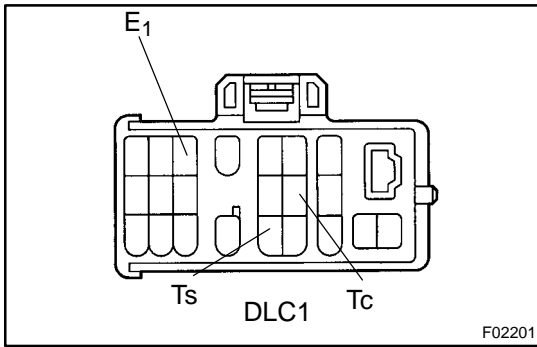


- (e) Using LEXUS brake-out-box and LEXUS hand-held tester, measure the ECU terminal values.
- (1) Turn the IG switch OFF.
 - (2) Hook up the LEXUS hand-held tester and LEXUS break-out-box to the vehicle.
 - (3) Turn the IG switch ON.
 - (4) Read the ECU input/output values by following the prompts on the tester screen.

HINT:

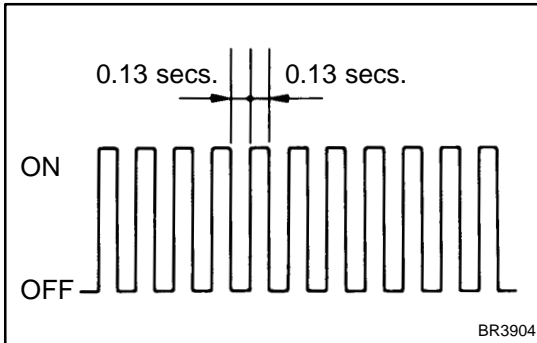
LEXUS hand-held tester has a "Snapshot" function. This records the measured values and is effective in the diagnosis of intermittent problems.

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



2. SPEED SENSOR SIGNAL SENSOR CHECK

- (a) Check the speed sensor signal.
- (1) Turn the ignition switch OFF.
 - (2) Using SST, connect terminals Ts and E₁ of DLC1.
SST 09843-18020
 - (3) Start the engine.



- (4) Check that the ABS warning light blinks.

HINT:

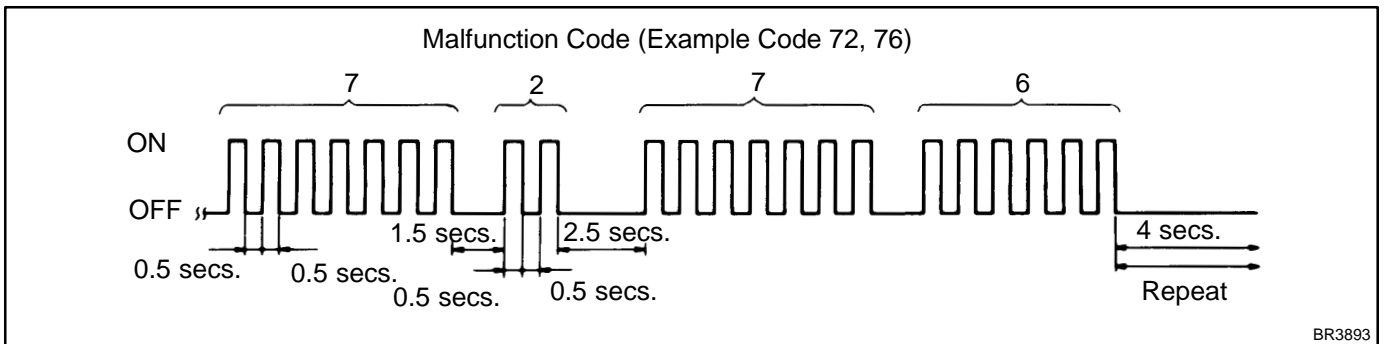
If the ABS warning light does not blink, inspect the ABS warning light circuit (See page [DI-451](#)).

- (5) Drive the vehicle faster than 45 km/h (28 mph) for several seconds.
- (6) Stop the vehicle.
- (7) Using SST, connect terminals Tc and E₁ of DLC1.
SST 09843-18020
- (8) Read the number of blinks of the ABS warning light.

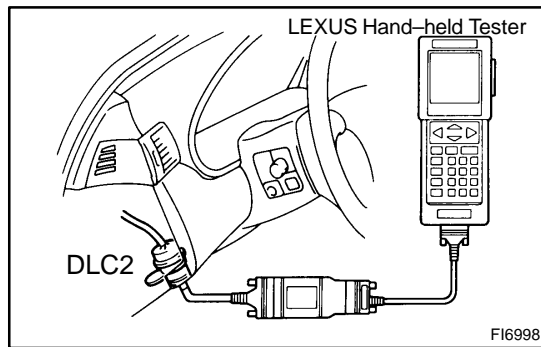
HINT:

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 terminals Ts and E₁, Tc and E₁ of DLC1, and ignition switch turned OFF.



- (b) Using LEXUS hand-held tester, check the DTC.
- (1) Do step 1. – 6. on the previous page.
 - (2) Hook up the LEXUS hand-held tester to the DLC2.
 - (3) Read the DTC by following the prompts on the tester screen.
- Please refer to the LEXUS hand-held tester operator's manual for farther details.

(c) DTC of the speed sensor check function.

Code No.	Diagnosis	Trouble Area
71	Low output voltage of right front speed sensor	<ul style="list-style-type: none"> • Right front speed sensor • Sensor installation • Sensor rotor
72	Low output voltage of left front speed sensor	<ul style="list-style-type: none"> • Left front speed sensor • Sensor installation • Sensor rotor
73	Low output voltage of right rear speed sensor	<ul style="list-style-type: none"> • Right rear speed sensor • Sensor installation • Sensor rotor
74	Low output voltage of left rear speed sensor	<ul style="list-style-type: none"> • Left rear speed sensor • Sensor installation • Sensor rotor
75	Abnormal change in output cycle of right front speed sensor	• Right front speed sensor rotor
76	Abnormal change in output cycle of left front speed sensor	• Left front speed sensor rotor
77	Abnormal change in output cycle of right rear speed sensor	• Right rear speed sensor rotor
78	Abnormal change in output cycle of left rear speed sensor	• Left rear speed sensor rotor