

## PRE-CHECK

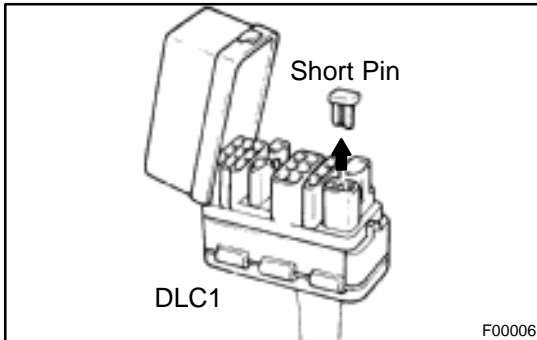
### 1. DIAGNOSIS SYSTEM

#### (a) Check the indicator

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

#### HINT:

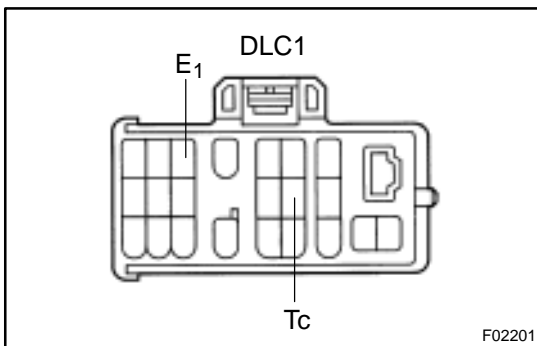
If the indicator check result is not normal, proceed to troubleshooting for the ABS warning light circuit (See page [DI-201](#)).



#### (b) Check the DTC

(1) Turn the ignition switch ON.

(2) Disconnect the short pin from the DLC1.



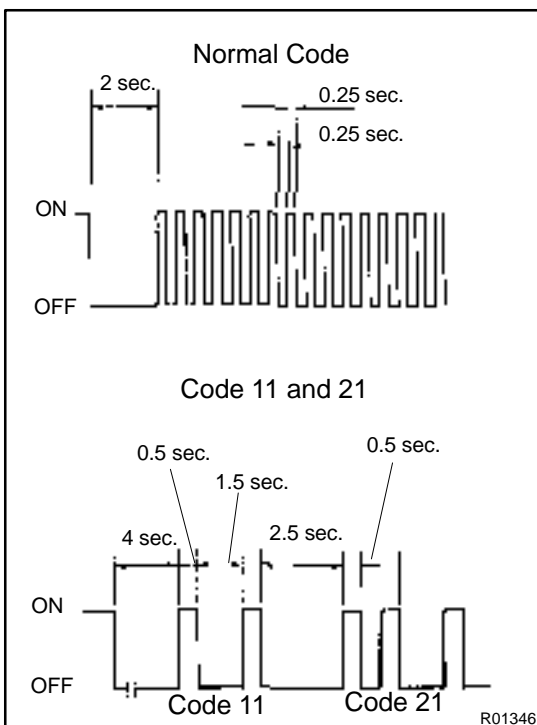
(3) Using SST, connect terminals Tc and E1 of the DLC1.

SST 09843-18020

(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-204](#) or [DI-201](#)).

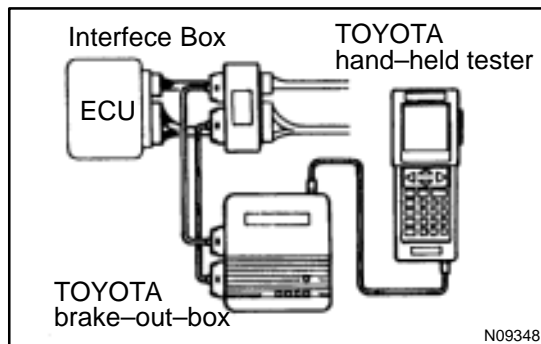
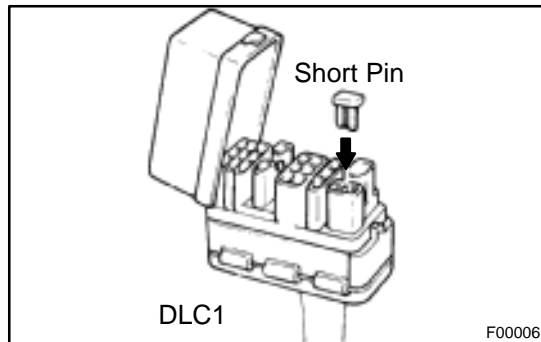


As an example, the blinking patterns for normal code and codes 11 and 21 are shown on the left.

(5) Codes are explained in the code table on page [DI-177](#).

(6) 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) Clear the DTC
- (1) Using SST, connect terminals Tc and E1 of the DLC1.
- SST 09843-18020
- (2) Disconnect the short pin from the DLC1.
  - (3) IG switch ON.
  - (4) Clear the DTC stored in ECU by depressing the brake pedal 8 or more times within 3 seconds.
  - (5) Check that the warning light shows the normal code.
  - (6) Remove the SST from the terminals of or the DLC1.
  - (7) Connect the short pin to the DLC1.
- SST 09843-18020

**HINT:**

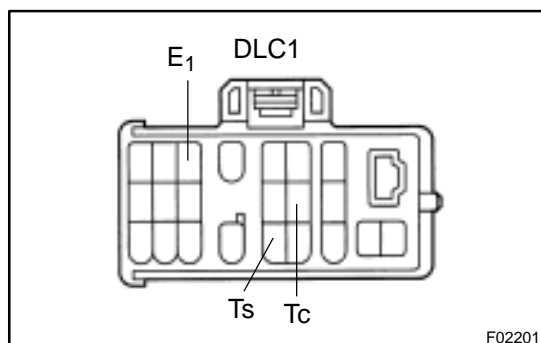
Cancellation can also be done by removing the DOME fuse, but in this case, other memory systems will also be cancelled out.

- (d) Using TOYOTA break-out box and TOYOTA hand-held tester, measure the ECU terminal values.
- (1) Turn the IG switch OFF.
  - (2) Hook up the TOYOTA hand-held tester and TOYOTA 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.

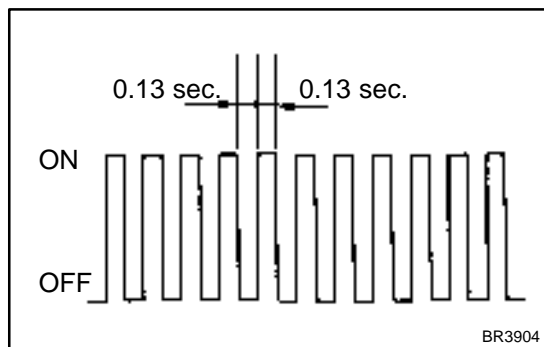
**HINT:**

TOYOTA 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 TOYOTA hand-held tester/TOYOTA break-out-box operator's manual for further details.

**2. SPEED SENSOR SIGNAL**

- (a) Speed sensor signal check.
- (1) Turn the ignition switch OFF.
  - (2) Using SST, connect terminals Ts and E1 of the 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-201).

- (5) Drive vehicle faster than 45 km/h (28 mph) for several seconds.  
 (6) Stop the vehicle.  
 (7) Using SST, connect terminals Tc and E<sub>1</sub> of the DLC1.

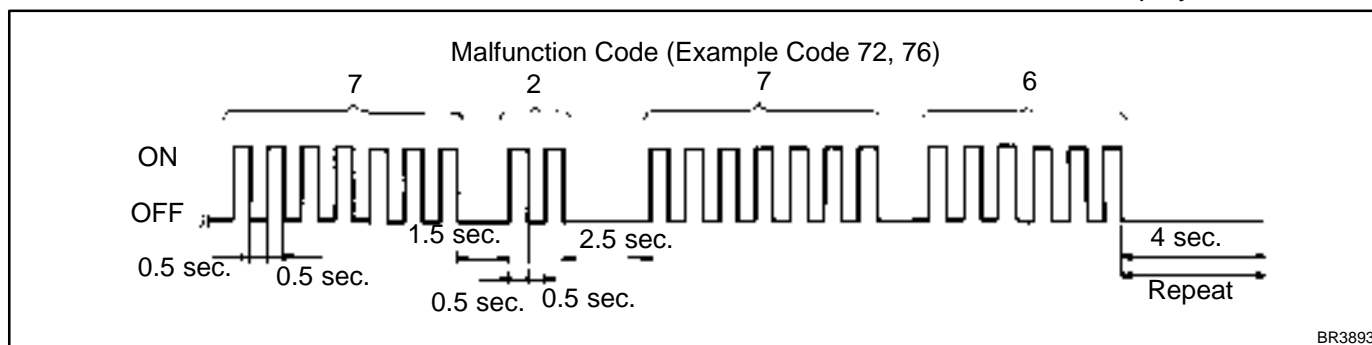
SST 09843-18020

- (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 E<sub>1</sub>, Tc and E<sub>1</sub> of the DLC1, and turn ignition switch OFF.

## (b) DTC of speed sensor check function.

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