

## PRE-CHECK

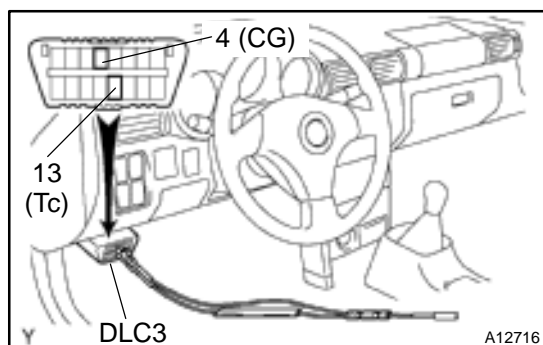
### 1. DIAGNOSIS SYSTEM

#### (a) Check the warning light.

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

#### HINT:

If the indicator is not normal, proceed to troubleshooting for the ABS warning light circuit (See page [DI-192](#)).



#### (b) In case of not using TOYOTA hand-held tester: Check the DTC.

##### (1) Using SST, connect terminals Tc and CG of the DLC3.

SST 09843-18040

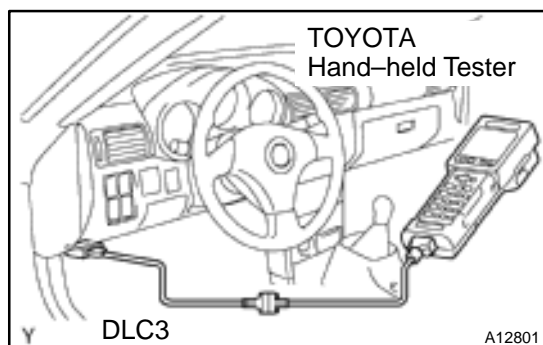
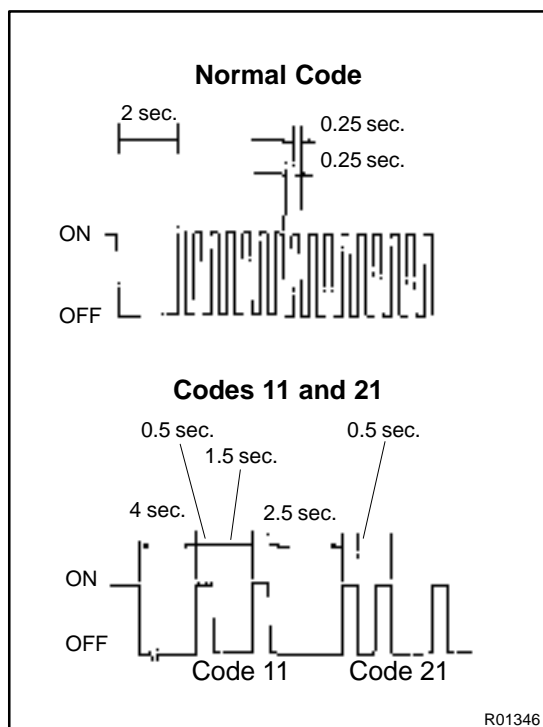
##### (2) Turn the ignition switch ON.

##### (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-195](#)).
- 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-158](#).
- (5) After completing the check, disconnect terminals Tc and CG of the DLC3, and turn off the display.

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



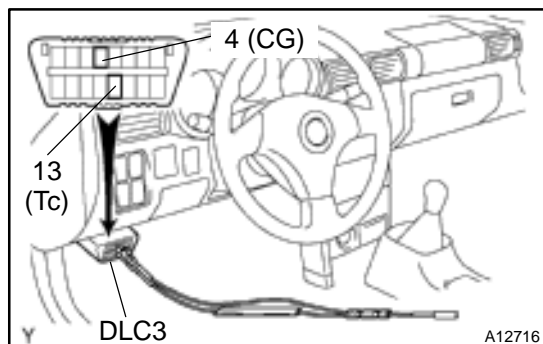
#### (c) In case of using TOYOTA hand-held tester: Check the DTC.

##### (1) Hook up the TOYOTA hand-held tester to the DLC3.

##### (2) Turn the ignition switch ON.

##### (3) Read the DTC by following the prompts on the tester screen.

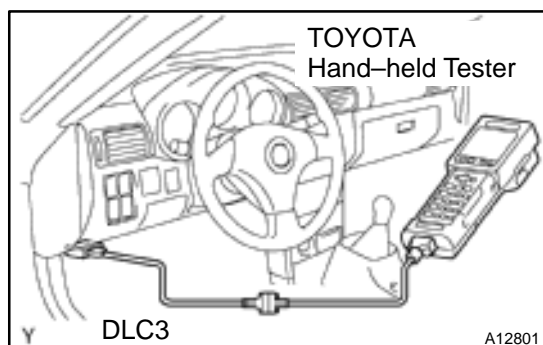
Please refer to the TOYOTA hand-held tester operator's manual for further details.



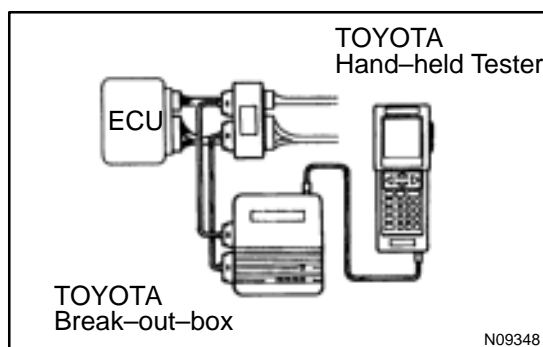
- (d) In case of not using TOYOTA hand-held tester:  
Clear the DTC.
- (1) Using SST, connect terminals Tc and CG of the DLC3.
- SST 09843-18040
- (2) Turn the ignition switch ON.



- (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 the DLC3.
- SST 09843-18040



- (e) In case of using TOYOTA hand-held tester:  
Clear the DTC.
- (1) Hook up the TOYOTA hand-held tester to the DLC3.
  - (2) Turn the ignition switch ON.
  - (3) Operate the TOYOTA hand-held tester to erase the codes. (See hand-held tester operator's manual.)

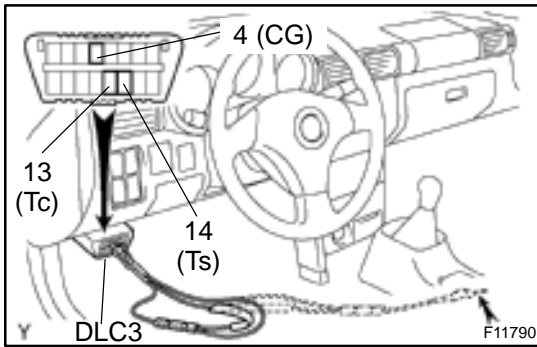


- (f) Reference:  
Using TOYOTA break-out-box and TOYOTA hand-held tester, measure the ECU terminal values.
- (1) Hook up the TOYOTA hand-held tester and TOYOTA break-out-box to the vehicle.
  - (2) Read the ECU input/output values by following the prompts on the tester screen.

**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 (TEST MODE)

(a) In case of not using TOYOTA hand-held tester:  
Check the speed sensor signal.

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

SST 09843-18040

- (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-192).

- (5) Drive vehicle straight forward.

HINT:

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

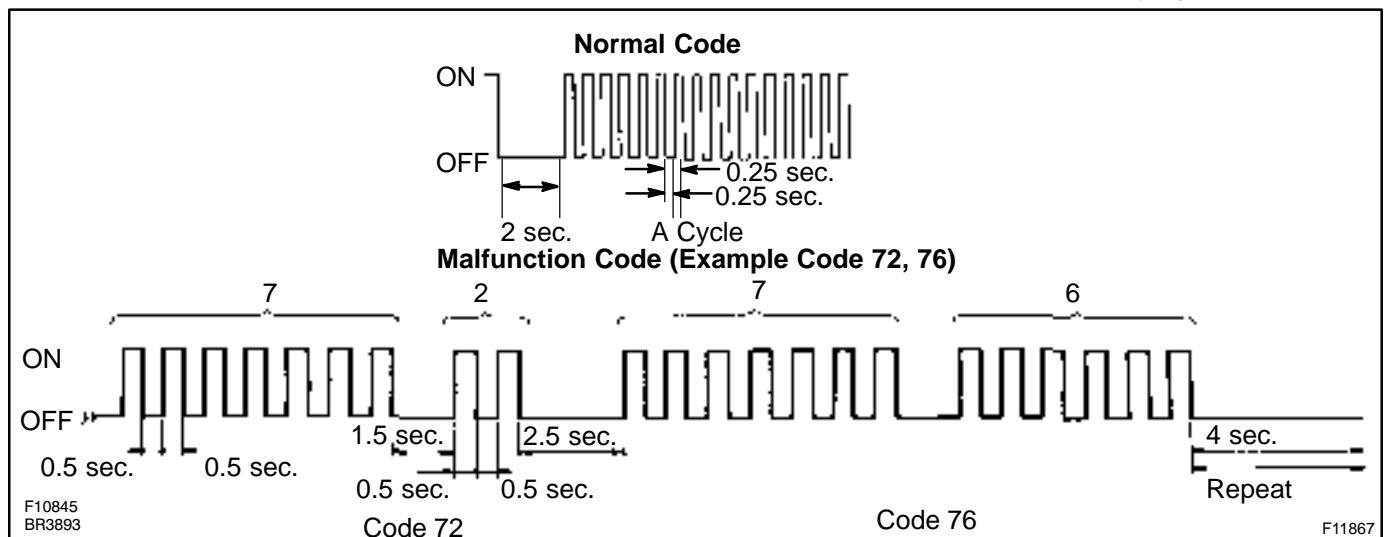
- (6) Stop the vehicle.
- (7) Using SST, connect terminals Tc and CG of the DLC3.

SST 09843-18040

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

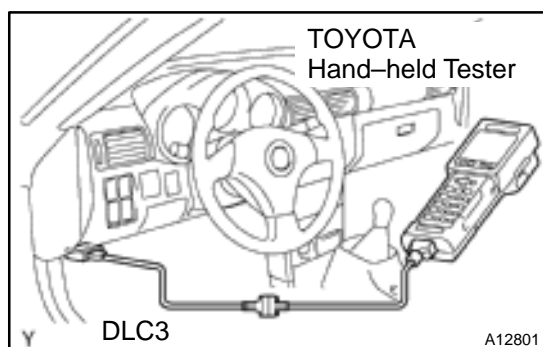
HINT:

- See the list of DTC shown on the next page.
- If each 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 first.



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

SST 09843-18040



(b) Using TOYOTA hand-held tester:  
Check the DTC.

- (1) Hook up the TOYOTA hand-held tester to the DLC3.
- (2) Do steps (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 TOYOTA 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	<ul style="list-style-type: none"> <li>• Right front speed sensor</li> <li>• Sensor installation</li> <li>• Right front speed sensor rotor</li> </ul>
C1272/72	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>• Left front speed sensor rotor</li> </ul>
C1273/73	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>• Right rear speed sensor rotor</li> </ul>
C1274/74	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>• Left rear speed sensor rotor</li> </ul>
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