

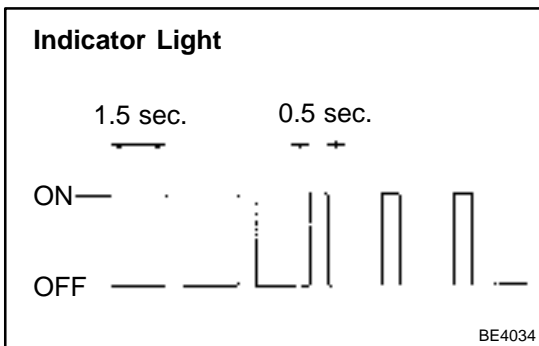
## PRE-CHECK

### 1. DIAGNOSIS SYSTEM

- (a) Check the indicator.
  - (1) Turn the ignition switch to ON.
  - (2) Check that the CRUISE MAIN indicator light comes on when the cruise control main switch is turned ON, and that the indicator light goes off when the main switch is turned OFF.

#### HINT:

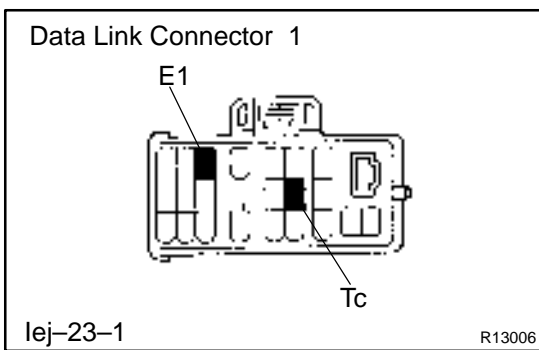
If the indicator check result is not normal, proceed to trouble-shooting (See page [BE-2](#)) for the combination meter section.



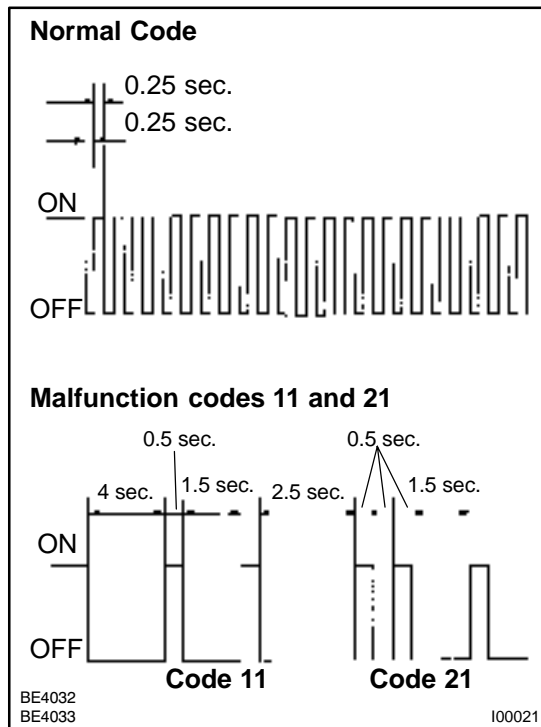
- (b) Check the DTC.

#### HINT:

If a malfunction occurs in the vehicle speed sensors or actuator, etc. during cruise control driving, the ECU actuates AUTO CANCEL of the cruise control and blinks the CRUISE MAIN indicator light to inform the driver of a malfunction. At the same time, the malfunction is stored in memory as a DTC.

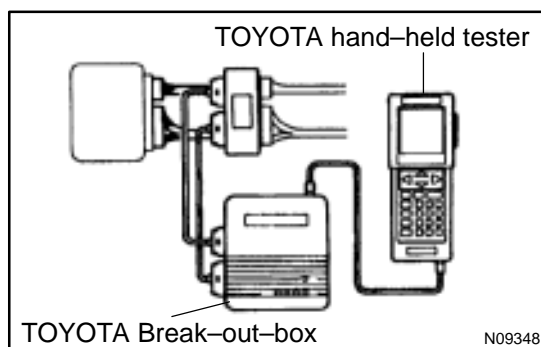


- (c) Using diagnosis check wire, check the output of DTC.
  - (1) Turn the ignition switch to ON.
  - (2) Using SST, connect terminals Tc and E<sub>1</sub> of DLC1.  
SST 09843-18020
  - (3) Read the DTC on the CRUISE MAIN indicator light.

**HINT:**

If the DTC is not output, inspect the diagnosis circuit (See page [DI-304](#)).

As an example, the blinking patterns for codes; normal, 11 and 21 are shown in the illustration.



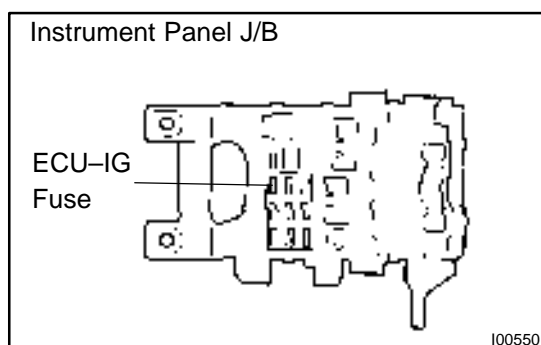
## 2. ECU TERMINAL VALUES MEASUREMENT USING TOYOTA BREAK-OUT-BOX AND TOYOTA HAND-HELD TESTER

- Hook up the TOYOTA break-out-box and TOYOTA hand-held tester to the vehicle.
- Read the ECU input/output values by following the prompts on the hand-held 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.



## 3. DTC CLEARANCE

- After completing repairs the DTC retained in memory can be cleared by removing the ECU-IG fuse for 10 seconds or more, with the ignition switch off.
- Check that the normal code is displayed after connecting the fuse.



## Output of Code

- (1) For check No.1 – No.2
    - Turn ignition switch ON.
  - (2) For check No.3
    - Turn the ignition switch ON.
    - Shift to D position.
  - (3) For check No.4
    - Jack up the vehicle.
    - Start the engine.
    - Shift to D position.
- (a) Press the control switch to SET/COAST or RES/ACC position and hold it down or hold it up (1).
  - (b) Push the main switch on (2).
  - (c) Check that the CRUISE MAIN indicator light blinks twice or 3 times repeatedly after 3 seconds.
  - (d) Turn the SET/COAST or RES/ACC switch off.
  - (e) Operate each switch as listed in the table below.
  - (f) Read the blinking pattern of the CRUISE MAIN indicator light.
  - (g) After performing the check, turn the main switch off.

HINT:

When 2 or more signals are input to the ECU, only the lowest numbered code is displayed.

No.	Operation Method	CRUISE MAIN Indicator Light Blinking Pattern	Diagnosis
1	Turn SET/COAST switch ON		SET/COAST switch circuit is normal
2	Turn RES/ACC switch ON		RES/ACC switch circuit is normal
3	Turn CANCEL switch ON		CANCEL switch circuit is normal
	Turn stop light switch ON (Depress brake pedal)		Stop light switch circuit is normal
	Turn PNP switch OFF (Shift to except D position)		PNP switch circuit is normal
	Turn clutch switch OFF (Depress clutch pedal)		Clutch switch circuit is normal
4	Drive at 40 km/h (25 mph) or higher		Speed Sensor is normal
	Drive at 40 km/h (25 mph) or below		