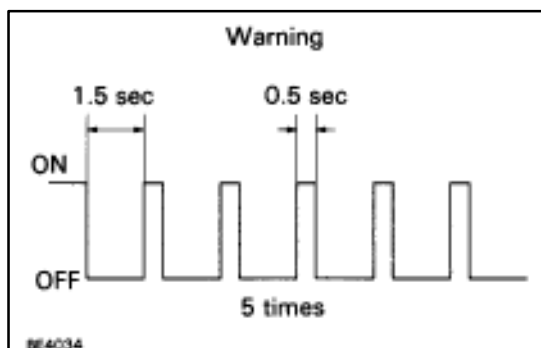


## DIAGNOSIS SYSTEM

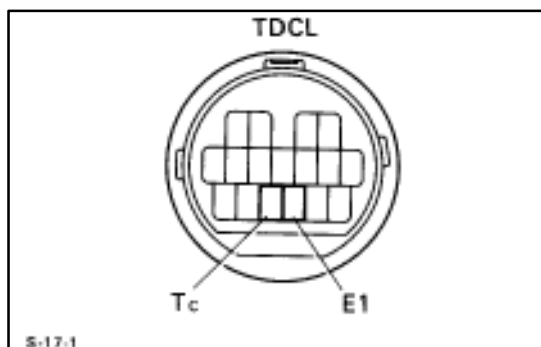
### INDICATOR CHECK

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 troubleshooting (See page [BE-140](#)) for the combination meter section.



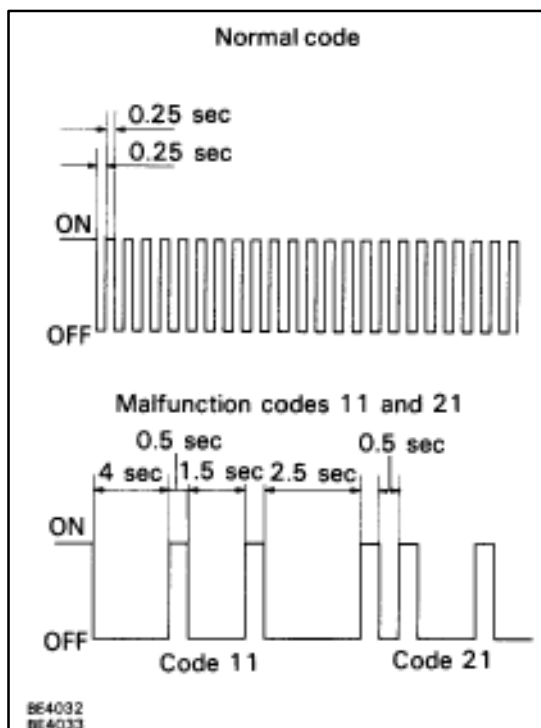
### DIAGNOSTIC CODE CHECK

HINT: If a malfunction occurs in the 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 5 times to inform the driver of a malfunction. At the same time, the malfunction is stored in memory as a diagnostic code.



### Output of Diagnostic Code


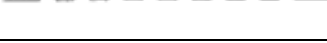





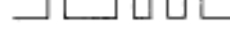
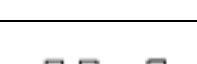

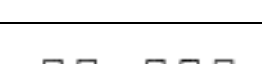

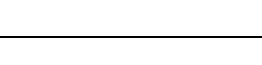

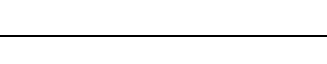

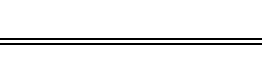

1. Turn the ignition switch ON.
2. Using SST, connect terminal Tc and E1 of TDCL.  
SST 09843-18020
3. Read the diagnostic code on the CRUISE MAIN indicator light.  
HINT: If the diagnostic code is not output, inspect the TC circuit (See page [BE-524](#)).



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

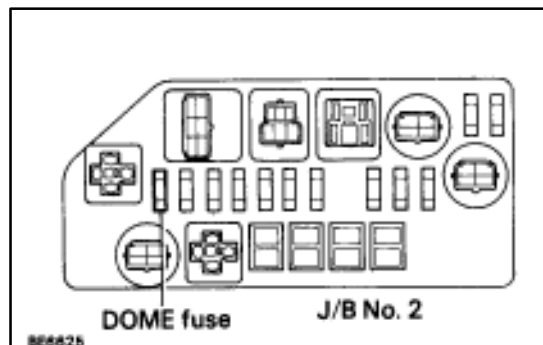
4. Check for the problem using the diagnostic code table on the next page.
5. After completing the check, disconnect terminals Tc and E1, and turn off the display.

## DIAGNOSTIC CODE

Code No.	CRUISE MAIN Indicator Light Blinking Pattern	Diagnosis
—	ON  OFF  <small>BE3931</small>	Normal
11	ON  OFF  <small>BE3931</small>	<ul style="list-style-type: none"> <li>Duty ratio of 100% output to motor acceleration side.</li> <li>Overcurrent (short) in motor circuit.</li> </ul>
12	ON  OFF  <small>BE3931</small>	<ul style="list-style-type: none"> <li>Overcurrent (short) in magnet clutch circuit.</li> <li>Open in manger clutch circuit for 0.8 sec.</li> </ul>
13	ON  OFF  <small>BE3931</small>	<ul style="list-style-type: none"> <li>Open in actuator motor circuit.</li> <li>Position sensor detects abnormal voltage.</li> <li>Position sensor signal value does not change when the motor operates.</li> </ul>
21	ON  OFF  <small>BE3932</small>	<ul style="list-style-type: none"> <li>Speed signal is not input to the ECU while cruise control is set.</li> </ul>
*23	ON  OFF  <small>BE3932</small>	<ul style="list-style-type: none"> <li>Actual vehicle speed has dropped by 16 km/h (10 mph) or more below the set speed.</li> </ul>
32	ON  OFF  <small>BE3933</small>	<ul style="list-style-type: none"> <li>Short in control switch circuit.</li> </ul>
34	ON  OFF  <small>BE3933</small>	<ul style="list-style-type: none"> <li>Voltage abnormality in control switch.</li> </ul>
41	ON  OFF  <small>BE3937</small>	<ul style="list-style-type: none"> <li>When 41 code is indicated, replace the cruise control ECU.</li> </ul>

HINT: When two or more codes are indicated, the lowest numbered code will be displayed first.

(\*) When the vehicle speed is reduced on uphill roads, the speed can be set again and driving continued. (This is not malfunction).



### Diagnostic Code Clearance

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