

CRUISE MAIN INDICATOR LIGHT CIRCUIT

CIRCUIT DESCRIPTION

When the cruise control main switch is on, the CRUISE main indicator light and READY indicator light come on.

This indicates the control condition (presence or absence of a vehicle in front, vehicle-to-vehicle distance, and set vehicle speed) and fail-safe state through the multiplex communication system and CAN communication system.

The master warning light and CRUISE main indicator light come on and vehicle-to-vehicle distance information is displayed on the combination meter as the alarm buzzer sounds.

Items such as "Clean Radar Sensor", "Cruise not Available", "Check Cruise System" and "Radar Cruise Ready" are displayed in the multi-information display on the combination meter when the ECM detects signals from each sensor and actuator and sends them to the combination meter via CAN and BEAN.

HINT:

If the vehicle in front in the same lane significantly decreases vehicle speed or another vehicle pulls in front of your vehicle, adequate deceleration cannot be applied and the vehicle-to-vehicle distance will shorten. At this time, the system sounds the buzzer and the master warning light blinks to warn the driver.

Each indicator in the dynamic laser cruise control uses CAN and BEAN for communication. Therefore, if there are any malfunctions in this circuit, check for DTCs in the CAN communication and multiplex communication systems.

INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST ON INTELLIGENT TESTER

- (a) Connect the intelligent tester to the DLC3.
 (b) Check the cruise control switch by using ACTIVE TEST.

COMBINATION METER:

Description	Tester Display	Check Condition
"CRUISE" Indicator is ON/OFF	Indicat. Lamp Cruise	ON - OFF
Graphic Area is ON/OFF	Indicat. Laser Cruise Display	ON - OFF
"CHECK CRUISE SYSTEM" Indicator is ON/OFF	Indicat. Lamp L - Cruise Check	ON - OFF
"RADAR READY" Indicator is ON/OFF	Indicat. Lamp L - Cruise Ready	ON - OFF

OK: Indicator light comes on.

NG

GO TO COMBINATION METER SYSTEM
(SEE PAGE 05-2148)

OK

2 READ VALUE ON INTELLIGENT TESTER

- (a) Connect the intelligent tester to the DLC3.
 (b) Turn the ignition switch to the ON position, and turn the intelligent tester main switch on.
 (c) Select the item "CCS Indicator M-CPU", "CCS Indicator S-CPU", "CCS Ready M-CPU" or "CCS Ready S-CPU" in the DATA LIST, and read its value displayed on the intelligent tester.
 (d) Check the CRUISE main indicator light and READY indicator light, when the cruise control main switch is ON and when it is OFF.

ECM:

Item	Measurement Item Display (Range)	Normal Condition	Diagnostic Note
CCS Ready M-CPU	Cruise control system standby condition (Main CPU) / ON or OFF	ON → OFF / Change ON/OFF each time Main SW is pushed.	*1
CCS Ready S-CPU	Cruise control system standby condition (Sub CPU) / ON or OFF	ON → OFF / Change ON/OFF each time Main SW is pushed.	*1
CCS Indicator M-CPU	Cruise indicator signal (Main CPU) / ON or OFF	ON "CCS READY" ON OFF "CCS READY" OFF	*2
CCS Indicator S-CPU	Cruise indicator signal (Sub CPU) / ON or OFF	ON "CCS READY" ON OFF "CCS READY" OFF	*2

OK: When cruise control main switch operation is performed the standard values will be above.

HINT:

*1 is OK, but *2 is NG → DTC output or ECM failure

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REPLACE ECM (SEE PAGE 10-21)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-3638)