Cruise Main Indicator Light 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. 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.
HINT:
If the vehicle in front in the same lane significantly decreases vehicle speed or another vehicle cuts 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 multi-information display blinks to warn the driver.

INSPECTION PROCEDURE

CC

1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER

(a) Connect the intelligent tester to the DLC3.
(b) Select the ACTIVE TEST, use the intelligent tester to generate a control command, and then check that the CRUISE main indicator light blinks.

METER:

Tester Display	Test Part	Control Range	Diagnostic Note
CRUISE INDIC	"CRUISE" indicator light	BLINK / OFF	-

OK:
Indicator light blinks/goes off.

NG → **REPLACE COMBINATION METER ASSEMBLY (See page ME-51)**

OK

2 READ VALUE OF 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) Check the DATA LIST for proper functioning of the CRUISE main indicator light.

ECM (Cruise control):

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
CCS READY M	Cruise control system standby condition (Main CPU) / ON or OFF	Each time main switch is pushed, ON / OFF changes	"1"
CCS READY S	Cruise control system standby condition (Sub CPU) / ON or OFF	Each time main switch is pushed, ON / OFF changes	"1"
CCS INDICATOR M	Cruise indicator signal (Main CPU) / ON or OFF	ON: "CRUISE" ON OFF: "CRUISE" OFF	"2"
CCS INDICATOR S	Cruise indicator signal (Sub CPU) / ON or OFF	ON: "CRUISE" ON OFF: "CRUISE" OFF	"2"

OK:
When the cruise control main switch is operated, the display changes as shown above.
HINT:
"1" is OK, but "2" is NG → DTC output or ECM failure

NG → **REPLACE ECM (See page ES-498)**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (See page CC-52)