DTC	P1578	Brake System Malfunction

DESCRIPTION

This DTC is output when the VSC system has a problem. Check the VSC system when this DTC is output.

DTC No.	DTC Detection Condition	Trouble Area
P1578	ECM receives brake system error signal for 0.2 sec. or more while dynamic radar cruise control is in operation	Brake system

1	CHECK BRAKE SYSTEM

NEXT

END

CC

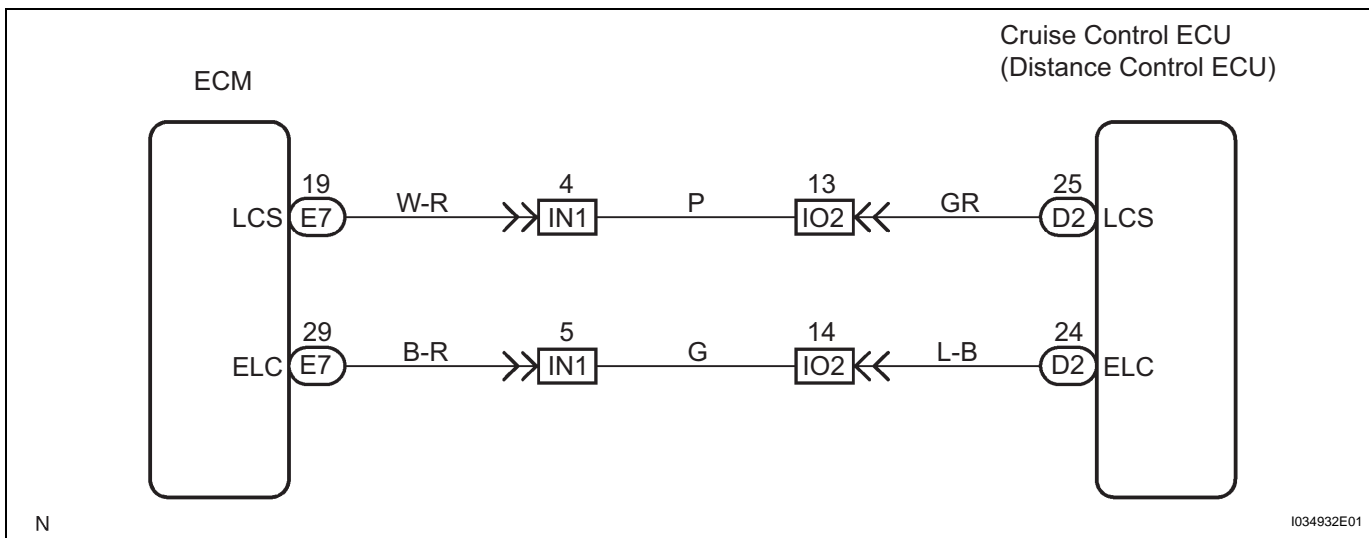| DTC	P1615	Communication Error from Distance Control ECU to ECM

DESCRIPTION

The cruise control ECU (distance control ECU) and ECM transmit the data for vehicle general control and diagnosis function along the communication line.

The cruise control ECU (distance control ECU) determines the distance, relative speed, and target deceleration speed based on the signal from the laser radar sensor, and transmits a control demand signal to the ABS & traction actuator assembly (skid control ECU).

DTC No.	DTC Detection Condition	Trouble Area
P1615/61	The malfunction code is output when the communication between the cruise control ECU (distance control ECU) and ECM is invalid for 0.5 sec. or more, while the laser radar sensor is in operation, or the communication from the cruise control ECU (distance control ECU) becomes logically distant for 0.5 sec. or more.	• Communication circuit • Cruise control ECU (Distance control ECU) • ECM

CC

WIRING DIAGRAM

I034932E01

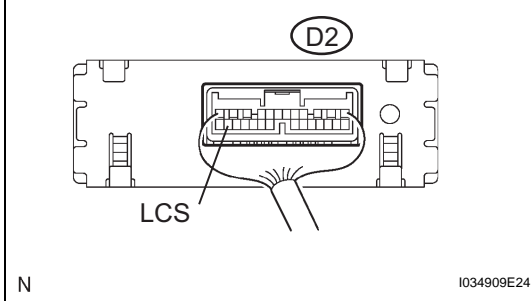| 1	CHECK WIRE HARNESS AND CONNECTOR (DISTANCE CONTROL ECU - ECM)

(a) Check for an open or short in harness and connector between the distance control ECU and ECM (See page IN-36).
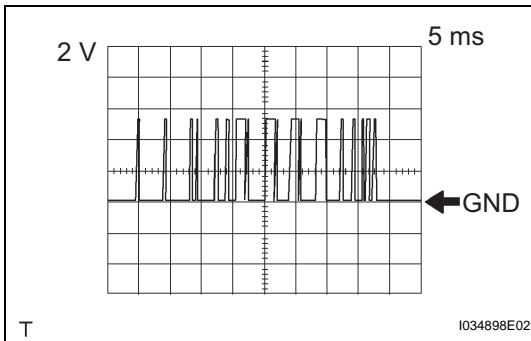
NG ▷ **REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR**

OK

2	INSPECT CRUISE CONTROL ECU ASSEMBLY (DISTANCE CONTROL ECU)

Wire Harness View:

LCS

N   I034909E24

(a) Remove the cruise control ECU (distance control ECU) with the connector.
(b) Turn the ignition switch to the ON position.

2 V   5 ms

←GND

T   I034898E02

(c) Check the signal waveform between terminal LCS (D2-25) of the distance control ECU and body ground.
Standard:
  Waveform similar to that in the illustration to the left is output.
HINT:
• Gauge set: 2 V/DIV, 5 ms./DIV
• Condition: Ignition switch ON

NG	>	REPLACE CRUISE CONTROL ECU ASSEMBLY

OK

REPLACE ECM