DTC	C2191/91	Vehicle Speed Signal Error (Test Mode DTC)

DESCRIPTION

The tire pressure warning ECU receives a speed signal from the combination meter. This DTC is stored upon entering test mode, and cleared when a vehicle speed signal of 12 mph (20 km/h) is detected for 3 seconds or more. This DTC is output only in test mode.

DTC No.	DTC Detecting Condition	Trouble Area
C2191/91	Speed sensor circuit malfunction	• Vehicle speed sensor • Tire pressure warning ECU • Combination meter • Wire harness or connector

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- **When replacing the tire pressure warning ECU, read the IDs stored in the ECU using the intelligent tester and write them down before removal.**
- **It is necessary to perform initialization (See page TW-23) after registration (See page TW-20) of the transmitter IDs into the tire pressure warning ECU after the ECU has been replaced.**

1	READ VALUE ON INTELLIGENT TESTER

(a) Make sure that the ignition switch is off.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Select the item below in the Data List, and read the value displayed on the intelligent tester.

TW

HINT:
Enter the following menus: DIAGNOSIS / OBD/MOBD / METER / DATA LIST.

METER:

Item	Normal Condition
VEHICLE SPD	Almost same as actual vehicle speed

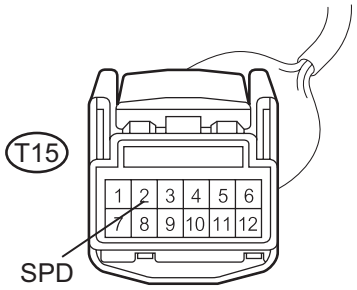
(e) Check that the values indicated on the tester and on the combination meter are the same.
OK:
Vehicle speed indicated on the intelligent tester indicates the actual speed.

NG → **GO TO METER / GAUGE SYSTEM**

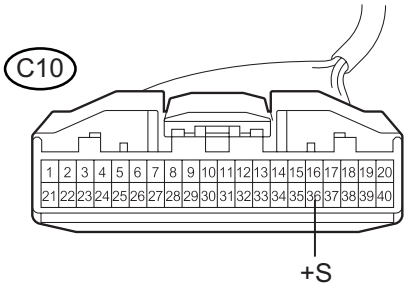
OK

2 CHECK HARNESS AND CONNECTOR (ECU - COMBINATION METER)

Front view of wire harness connector:
(to Tire Pressure Warning ECU)



Front view of wire harness connector:
(to Combination Meter)



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C159184E04

(a) Disconnect the T15 ECU connector.
(b) Disconnect the C10 meter connector.
(c) Measure the resistance according to the value(s) in the table below.
Standard resistance

Tester Connection	Condition	Specified Condition
T15-2 (SPD) - C10-36 (+S)	Always	Below 1 Ω
T15-2 (SPD) - Body ground		10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE TIRE PRESSURE WARNING ECU (See page TW-87)