DTC	C2141/41	Transmitter ID1 Error

DTC	C2142/42	Transmitter ID2 Error

DTC	C2143/43	Transmitter ID3 Error

DTC	C2144/44	Transmitter ID4 Error

DTC	C2145/45	Transmitter ID5 Error

DESCRIPTION

DTC No.	DTC Detection Condition	Trouble Area
C2141/41 C2142/42 C2143/43 C2144/44 C2145/45	If an "ERROR" signal is received 3 times consecutively, tire pressure monitor valve will be judged as defective and this DTC will be output. This will happen in situations where inflation pressure is outside range 0 to 537.5 kPa (0 to 5.27 kgf/cm^2, 0 psi to 77.7 psi), temperature inside tire is outside specified range -40 to 215°C (-40 to 419 °F), or an error occurs in tire pressure monitor valve.	Tire pressure warning valve and transmitter

HINT:
It is necessary to perform the procedure to identify the tire pressure monitor valve that is malfunctioning because it cannot be identified by the output DTC.

INSPECTION PROCEDURE

NOTICE:
It is necessary to register an ID code after replacing the tire pressure warning valve and transmitter and/or the tire pressure warning ECU (see page TW-9).

1	IDENTIFY TRANSMITTER (CORRESPONDING TO DTC)

(a) Set the pressure of each tire to the specified value.
Standard pressure:
220 kPa (2.2 kgf /cm^2, 32 psi)
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Select TIREPRESS by following the prompts displayed on the intelligent tester.

Tire pressure warning ECU

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
TIREPRESS1	ID1 tire pressure/ minimum: 0 kPa (0 kgf/cm^2, 0 psi) maximum: 637.5 kPa (6.5 kgf/ cm^2, 92.5 psi)	Actual tire pressure	-
TIREPRESS2	ID2 tire pressure/ minimum: 0 kPa (0 kgf/cm^2, 0 psi) maximum: 637.5 kPa (6.5 kgf/ cm^2, 92.5 psi)	Actual tire pressure	-

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
TIREPRESS3	ID3 tire pressure/ minimum: 0 kPa (0 kgf/cm^2, 0 psi) maximum: 637.5 kPa (6.5 kgf/ cm^2, 92.5 psi)	Actual tire pressure	-
TIREPRESS4	ID4 tire pressure/ minimum: 0 kPa (0 kgf/cm^2, 0 psi) maximum: 637.5 kPa (6.5 kgf/ cm^2, 92.5 psi)	Actual tire pressure	-
TIREPRESS5	ID5 tire pressure/ minimum: 0 kPa (0 kgf/cm^2, 0 psi) maximum: 637.5 kPa (6.5 kgf/ cm^2, 92.5 psi)	Actual tire pressure	-

NOTICE:
It may take up to 1 minute to display the updated data.

(e) Rapidly release the tire pressure from any tire by 40 kPa (0.4 kgf/cm^2, 5.8 psi) for 30 seconds or more.
HINT:
- Identify the malfunctioning tire pressure warning valve and transmitter by rapidly releasing the tire pressures from each tire.
- Record which TIREPRESS data (ID1 to ID5) corresponds to each tire.

(f) Check the DATA LIST.

Result

Condition	Detection Condition
One of TIREPRESS data (ID1 to ID5) changed	Normal
None of TIREPRESS data changed	Transmitter corresponding to DTC

NOTICE:
- **When the TIREPRESS data (IDs 1 to 5) changes, reset the tire pressure of the tires to the specified value, rotate the tires 90 to 270° and recheck.**
- **When the transmitter is normal, record the tire location and the transmitter ID.**

(g) When one of the TIREPRESS data (IDs 1 to 5) changes, repeat the same procedure on the rest of the tires one by one to identify which tire pressure warning valve and transmitter the DTC corresponds to.

(h) When the TIREPRESS data (IDs 1 to 5) has been changed, identify the malfunctioning tire pressure warning valve and transmitter by using recorded ID numbers and the output DTC.

(i) Set the pressure of each tire to the specified value.
Standard pressure:
220 kPa (2.2 kgf /cm^2, 32 psi)

NEXT

REPLACE TIRE PRESSURE WARNING VALVE AND TRANSMITTER