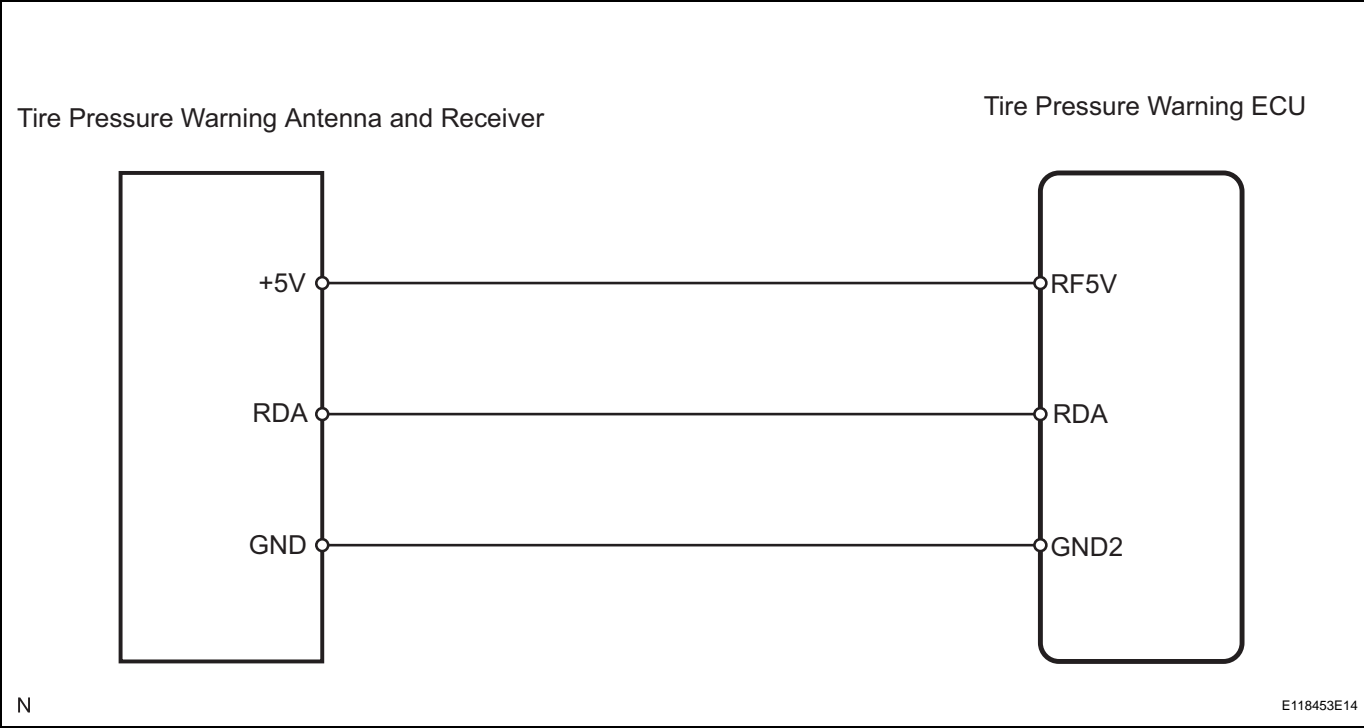


DTC	C2176/76	Receiver Error
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DESCRIPTION

DTC No.	DTC Detection Condition	Trouble Area
C2176/76	DTC is stored when either of following is detected: <ul style="list-style-type: none"><li>Malfunction in tire pressure warning ECU internal circuit.</li><li>Terminal RF5V is shorted to ground.</li></ul>	<ul style="list-style-type: none"><li>Tire pressure warning antenna and receiver</li><li>Tire pressure warning ECU</li><li>Wire harness</li></ul>

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

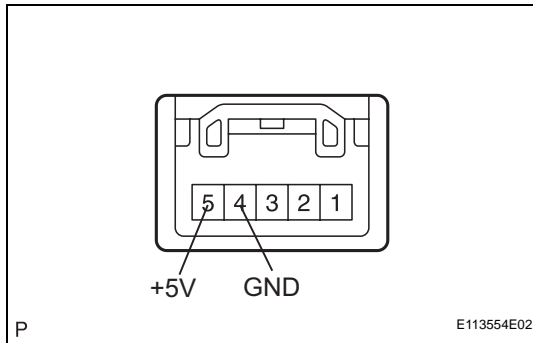
It is necessary to register an ID code after replacing the tire pressure warning valve abd transmitter and/or the tire pressure warning ECU (see page TW-9).

HINT:

Set the tire pressure to the specified value.

Standard pressure:

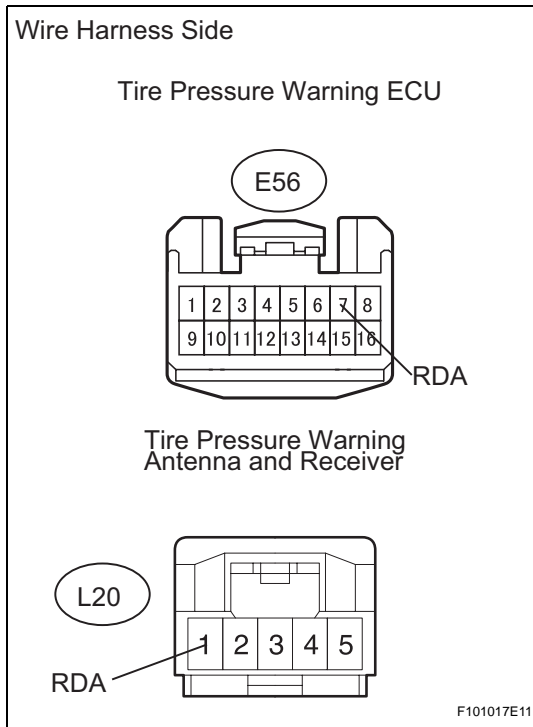
220 kPa (2.2 kgf/cm<sup>2</sup>, 32 psi)

**1 CHECK TIRE PRESSURE WARNING ECU**

(a) Measure the voltage of the connector.

**Standard voltage**

Tester Connection	Switch Condition	Specified Condition
L20-5 (+5V) - L20-4 (GND)	Ignition switch ON	4.5 to 5.5 V

**NG****Go to step 5****OK****2 CHECK WIRE HARNESS (ECU - RECEIVER)**

- (a) Disconnect the E56 ECU connector.  
 (b) Disconnect the L20 receiver connector.  
 (c) Measure the resistance of the wire harness side connectors.

**Standard resistance**

Tester Connection	Specified Condition
E56-7 (RDA) - L20-1 (RDA)	Below 1 $\Omega$

**NG****REPAIR OR REPLACE HARNESS AND CONNECTOR****OK****3 REPLACE TIRE PRESSURE WARNING ANTENNA AND RECEIVER****NEXT****4 CHECK DTC**(a) Check for DTC (see page [TW-20](#)).**OK:****DTC is not output.****TW**

- HINT:
- It is necessary to register an ID when replacing the tire pressure warning ECU (see page TW-9).
  - Read ID on the DATA LIST before removing the tire pressure warning ECU. Register the ID in the new tire pressure warning ECU.

NG

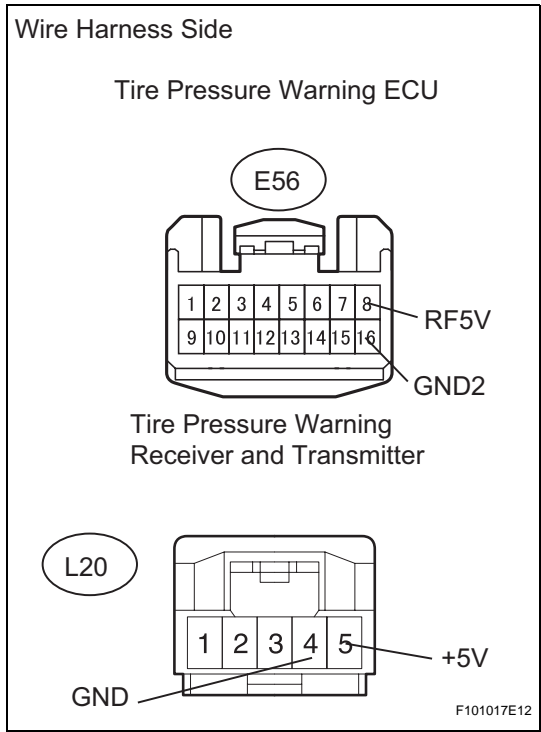
REPLACE TIRE PRESSURE WARNING ECU

OK

END

5

CHECK WIRE HARNESS (ECU - RECEIVER)



- (a) Disconnect the E56 ECU connector.
- (b) Disconnect the L22 receiver connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
E56-8 (GND2) - L20-4 (GND)	Below 1 Ω
E56-8 (RF5V) - L20-5 (+5V)	

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE TIRE PRESSURE WARNING ECU

TW