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<b>Model Year Start:</b> 2009	<b>Model:</b> GX470	<b>Prod Date Range:</b> [08/2008 - ]
<b>Title:</b> TIRE AND WHEEL: TIRE PRESSURE WARNING SYSTEM: C2121/21,...,C2185/85; No Signal from Transmitter ID1 in Main Mode; 2009 MY GX470 [08/2008 - ]		

<b>DTC</b>	<b>C2121/21</b>	<b>No Signal from Transmitter ID1 in Main Mode</b>
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<b>DTC</b>	<b>C2122/22</b>	<b>No Signal from Transmitter ID2 in Main Mode</b>
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<b>DTC</b>	<b>C2123/23</b>	<b>No Signal from Transmitter ID3 in Main Mode</b>
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<b>DTC</b>	<b>C2124/24</b>	<b>No Signal from Transmitter ID4 in Main Mode</b>
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<b>DTC</b>	<b>C2125/25</b>	<b>No Signal from Transmitter ID5 in Main Mode</b>
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<b>DTC</b>	<b>C2131/31</b>	<b>No Signal from Transmitter ID1 in 2nd Mode</b>
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<b>DTC</b>	<b>C2132/32</b>	<b>No Signal from Transmitter ID2 in 2nd Mode</b>
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<b>DTC</b>	<b>C2133/33</b>	<b>No Signal from Transmitter ID3 in 2nd Mode</b>
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<b>DTC</b>	<b>C2134/34</b>	<b>No Signal from Transmitter ID4 in 2nd Mode</b>
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<b>DTC</b>	<b>C2135/35</b>	<b>No Signal from Transmitter ID5 in 2nd Mode</b>
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<b>DTC</b>	<b>C2181/81</b>	<b>Transmitter ID1 not Received (Test Mode DTC)</b>
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<b>DTC</b>	<b>C2182/82</b>	<b>Transmitter ID2 not Received (Test Mode DTC)</b>
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<b>DTC</b>	<b>C2183/83</b>	<b>Transmitter ID3 not Received (Test Mode DTC)</b>
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<b>DTC</b>	<b>C2184/84</b>	<b>Transmitter ID4 not Received (Test Mode DTC)</b>
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## DESCRIPTION

The tire pressure warning valves and transmitters that are installed in the tire and wheel assemblies measure the tire pressure of the tires. The measured values are transmitted to the tire pressure warning antenna and receiver on the body as radio waves and then sent to the tire pressure warning ECU. The ECU compares the measured tire pressure values with the tire pressure threshold. When the measured tire pressure value is less than this threshold, the warning light in the combination meter turns on.

The tire pressure warning valves and transmitters constantly send radio waves to the tire pressure warning antenna and receiver.

Under the conditions below, the tire pressure warning antenna and receiver is unable to receive the signals from the tire pressure warning valves and transmitters, and a DTC is stored.

- Facilities or devices that use similar radio frequencies are located in the vicinity of the vehicle.
- Devices using similar radio frequencies are used in the vehicle.
- The ID of the tire pressure warning valve and transmitter is mistyped during registration.
- A tire/wheel/transmitter from a different vehicle is installed.

### HINT:

When a transmitter ID is not received from a tire pressure warning valve and transmitter for a total of 20 minutes while the vehicle speed is more than 8 km/h (5 mph) or transmitter IDs are not received from all the tire pressure warning valves and transmitters for a total of 20 minutes, DTCs are stored.

DTCs from C2121/21 to C2125/25 and C2131/31 to C2135/35 can only be cleared by using the Techstream. DTCs from C2181/81 to C2185/85 can be cleared when the transmitter in the tire pressure warning valve and transmitter sends a forced transmission signal or test mode ends. DTCs from C2181/81 to C2185/85 are output only in test mode.

DTC CODE	DTC DETECTION CONDITION	TROUBLE AREA
C2121/21 C2122/22 C2123/23 C2124/24 C2125/25 C2131/31 C2132/32 C2133/33 C2134/34 C2135/35	<p>Following condition (a) or (b) is met:</p> <p>(a) When all conditions below are met:</p> <ul style="list-style-type: none"> <li>• Tire pressure warning valve and transmitter is not in stop mode.</li> <li>• Any transmitter ID is not received from tire pressure warning valves and transmitters.</li> <li>• For a total of 20 minutes or more, vehicle speed is more than 8 km/h (5 mph) or no vehicle speed signal or engine speed signal is received.</li> </ul> <p>(b) When all conditions below are met:</p> <ul style="list-style-type: none"> <li>• Tire pressure warning valve and transmitter is not in stop mode.</li> <li>• Transmitter IDs are not received from tire pressure warning valves and transmitters for 20 minutes or more.</li> </ul>	<ul style="list-style-type: none"> <li>• Tire pressure warning valve and transmitter</li> <li>• Tire pressure warning antenna and receiver</li> <li>• Harness or connector</li> <li>• Tire pressure warning ECU</li> </ul>

DTC CODE	DTC DETECTION CONDITION	TROUBLE AREA
C2181/81 C2182/82 C2183/83 C2184/84 C2185/85	Test mode procedure is performed.	<ul style="list-style-type: none"> <li>• Tire pressure warning valve and transmitter</li> <li>• Tire pressure warning antenna and receiver</li> <li>• Harness or connector</li> <li>• Tire pressure warning ECU</li> </ul>

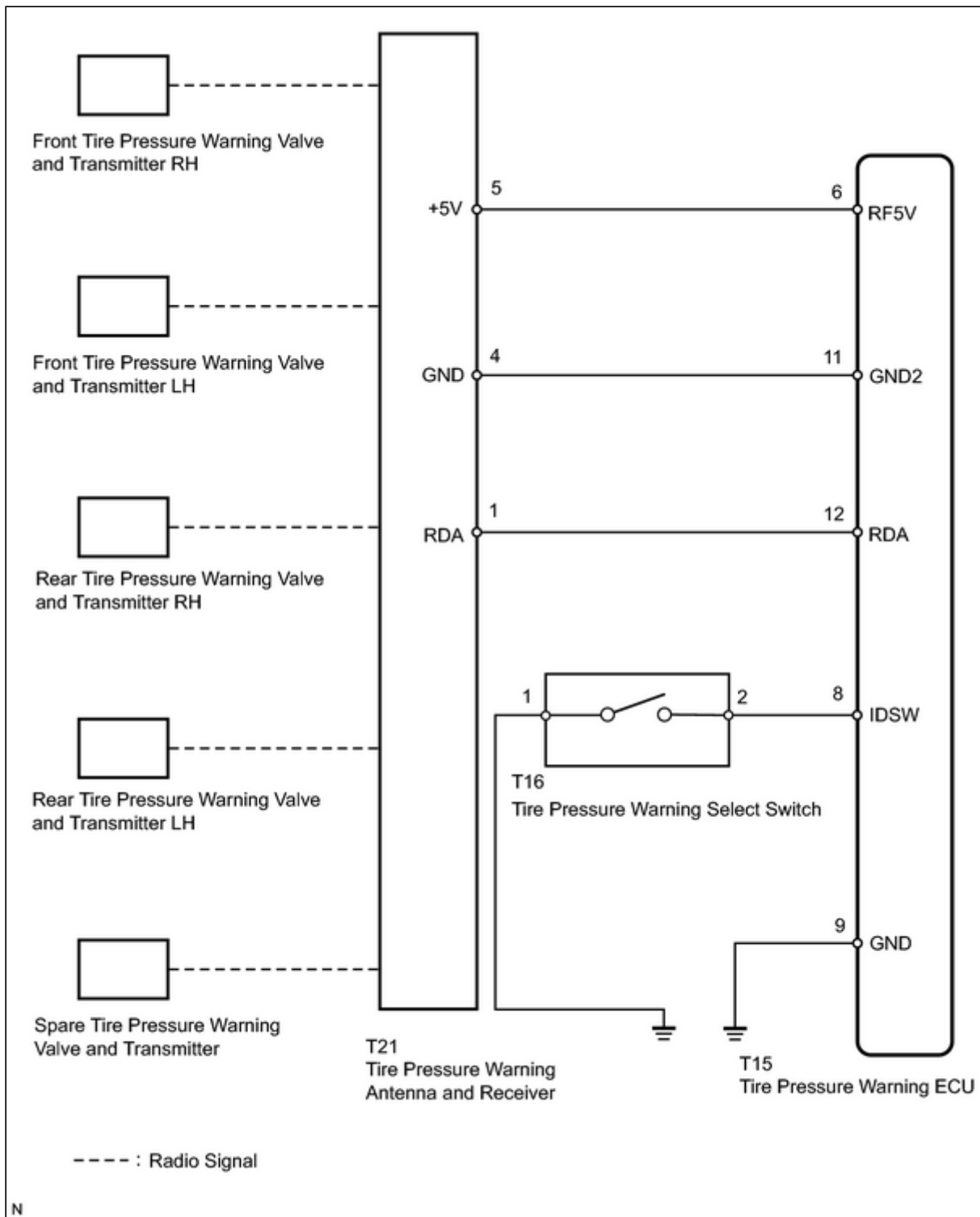
**NOTICE:**

When DTCs C2121/21 to C2125/25 or C2131/31 to C2135/35 are set, DTC C2173/73 may be set simultaneously. In such cases, troubleshoot C2173/73 first, then troubleshoot DTCs C2121/21 to C2125/25 and C2131/31 to C2135/35.

**HINT:**

It is necessary to perform the procedure to identify the tire pressure warning valve and transmitter that is malfunctioning because it cannot be identified by the output DTC.

**WIRING DIAGRAM**



## INSPECTION PROCEDURE

### NOTICE:

- When replacing the tire pressure warning ECU, read the IDs stored in the old ECU using the Techstream and write them down before removal.
- It is necessary to perform registration INFO of the transmitter IDs into the tire pressure warning ECU after the ECU and/or the tire pressure warning valve and transmitter has been replaced.

## PROCEDURE

### 1. READ OUTPUT DTC (DTC C2173/73)

(a) Turn the ignition switch OFF.

- (b) Connect the Techstream to the DLC3.
- (c) Turn the ignition switch ON and turn the Techstream on.
- (d) Enter the following menus: Chassis / Tire Pressure Monitor / Trouble Codes /
- (e) Read DTCs.

**Result**

RESULT	PROCEED TO
DTC C2173/73 is not output	A
DTC C2173/73 is output	B

**NOTICE:**

When DTC C2173/73 is output, troubleshoot that DTC first. Then troubleshoot DTCs C2121/21 to C2125/25 and C2131/31 to C2135/35.

**B**  **GO TO DTC C2173/73**

**A**



<b>2.</b>	<b>CHECK FREQUENCY RECEIVING CONDITION</b>
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(a) Check for the conditions described below:

- (1) Facilities or devices that use similar radio frequencies are located in the vicinity of the vehicle.

**HINT:**

If the vehicle is located in areas described above, the tire pressure warning light may turn on only in a particular area.

- (2) Devices using similar radio frequencies are used in the vehicle.

OK:

Facilities or devices that use similar radio frequencies are not located in the vicinity of the vehicle.

**HINT:**


Radio frequencies may be interrupted due to surroundings or devices installed by the user.

**NG**  **CHECK IF ANY DEVICE IS INSTALLED BY USER**

**OK**



<b>3.</b>	<b>IDENTIFY TRANSMITTER CORRESPONDING TO DTC</b>
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- (a) Set the tire pressure of all tires to the specified value  .
- (b) Turn the ignition switch OFF.

(c) Connect the Techstream to the DLC3.

(d) Turn the ignition switch ON and turn the Techstream on.

(e) Enter the following menus: Chassis / Tire Pressure Monitor / Data List /

(f) Check the values by referring to the table below.

**Tire Pressure Monitor**

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ID1 Tire Inflation Pressure	ID1 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID2 Tire Inflation Pressure	ID2 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID3 Tire Inflation Pressure	ID3 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID4 Tire Inflation Pressure	ID4 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ID5 Tire Inflation Pressure	ID5 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*

**HINT:**

\*: It may take about 2 or 3 minutes until the values are displayed.

(g) Rapidly reduce the tire pressure for each wheel at least 40 kPa (0.4 kgf/cm<sup>2</sup>, 5.8 psi) within 30 seconds.

(h) Check the Data List.

**NOTICE:**

- It takes about 2 or 3 minutes to display the updated tire pressure data.
- When "ID Tire Inflation Pressure" data has not changed, reset the tire pressure to the appropriate specified value and rotate the tire 90 to 270°. Then rapidly release the tire pressure and recheck it.
- Record the "ID Tire Inflation Pressure" data transmitter ID that corresponds to each tire.

(i) After confirming that the "ID Tire Inflation Pressure" data for one tire (ID1 to ID5) has changed, repeat this procedure for each tire. Identify the transmitter that corresponds to the DTC.

**Result**

CONDITION	PROCEED TO
All abnormal	A
One or more of transmitters abnormal	B
All normal	C

**B** ► GO TO STEP 7

**C** ► END

**A**



<b>4.</b>	<b>SWITCH TIRE PRESSURE WARNING SELECT SWITCH</b>
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(a) Switch the tire pressure select switch to the other position (MAIN to 2nd or 2nd to MAIN).

(b) Set the tire pressure to the appropriate specified values  .

(c) Turn the ignition switch OFF.

(d) Connect the Techstream to the DLC3.

(e) Turn the ignition switch ON and turn the Techstream on.

(f) Enter the following menus: Chassis / Tire Pressure Monitor / Data List /

(g) Check the values by referring to the table below.

**Tire Pressure Monitor**

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ID1 Tire Inflation Pressure	ID1 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID2 Tire Inflation Pressure	ID2 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID3 Tire Inflation Pressure	ID3 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID4 Tire Inflation Pressure	ID4 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID5 Tire Inflation Pressure	ID5 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*



**HINT:**

\*: It may take about 2 or 3 minutes until the values are displayed.

(h) Rapidly reduce the tire pressure for each wheel at least 40 kPa (0.4 kgf/cm<sup>2</sup> , 5.8 psi) within 30 seconds.

(i) Check the Data List.

**NOTICE:**

- It takes about 2 or 3 minutes to display the updated tire pressure data.
- When "ID Tire Inflation Pressure" data has not changed, reset the tire pressure to the appropriate specified value and rotate the tire 90 to 270°. Then rapidly release the tire pressure and recheck it.
- Record the "ID Tire Inflation Pressure" data transmitter ID that corresponds to each tire.

(j) After confirming that the "ID Tire Inflation Pressure" data for one tire (ID1 to ID5) has changed, repeat this procedure for each tire. Identify the transmitter that corresponds to the DTC.

**Result**

CONDITION	PROCEED TO
Tire pressure values are not displayed	A
All tire pressure readings are equal to specified values	B

**B**  **END**

**A**



**5. RETURN TIRE PRESSURE WARNING SELECT SWITCH TO ORIGINAL POSITION**

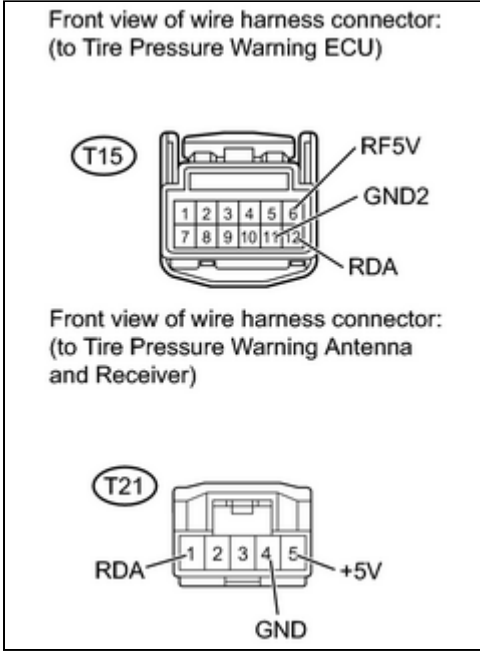
(a) Return the tire pressure warning select switch to the original position.

**NEXT**



**6. CHECK HARNESS AND CONNECTOR (ECU - RECEIVER)**

(a) Disconnect the T15 ECU connector.



- (b) Disconnect the T21 receiver connector.
- (c) Measure the resistance according to the value(s) in the table below.  
Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
T15-12 (RDA) - T21-1 (RDA)	Always	Below 1 Ω
T15-11 (GND2) - T21-4 (GND)	Always	Below 1 Ω
T15-6 (RF5V) - T21-5 (+5V)	Always	Below 1 Ω
T15-12 (RDA) or T21-1 (RDA) - Body ground	Always	10 kΩ or higher
T15-11 (GND2) or T21-4 (GND) - Body ground	Always	10 kΩ or higher
T15-6 (RF5V) or T21-5 (+5V) - Body ground	Always	10 kΩ or higher

**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

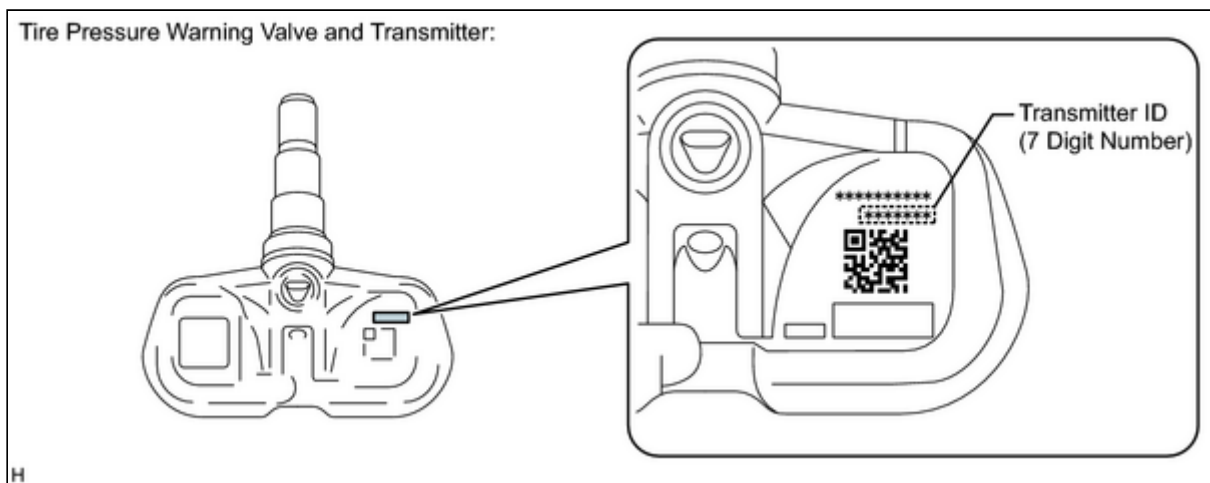
**7. CHECK TRANSMITTER ID**

- (a) Turn the ignition switch OFF.
- (b) Connect the Techstream to the DLC3.
- (c) Turn the ignition switch ON and turn the Techstream on.
- (d) Enter the following menus: Chassis / Tire Pressure Monitor / Data List /
- (e) Check the values by referring to the table below.

**Tire Pressure Monitor**

TESTER DISPLAY	MEASUREMENT ITEM/DISPLAY	NORMAL CONDITION	DIAGNOSTIC NOTE
Registered ID1 Code	Registered ID1 code/ min.: 0 max.: FFFFFFFF*	The ID No. registered in the transmitter ID1 is displayed	*: Displayed only when the ID No. is not registered.
Registered ID2 Code	Registered ID2 code/ min.: 0 max.: FFFFFFFF*	The ID No. registered in the transmitter ID2 is displayed	*: Displayed only when the ID No. is not registered.
Registered ID3 Code	Registered ID3 code/ min.: 0 max.: FFFFFFFF*	The ID No. registered in the transmitter ID3 is displayed	*: Displayed only when the ID No. is not registered.
Registered ID4 Code	Registered ID4 code/ min.: 0 max.: FFFFFFFF*	The ID No. registered in the transmitter ID4 is displayed	*: Displayed only when the ID No. is not registered.
Registered ID5 Code	Registered ID5 code/ min.: 0 max.: FFFFFFFF*	The ID No. registered in the transmitter ID5 is displayed	*: Displayed only when the ID No. is not registered.

(f) Check the ID number on the identified transmitter by removing it from the tire and wheel.



(g) Confirm that the ID number on the transmitter and recorded transmitter ID match.


**Result**

RESULT	PROCEED TO
Match	A
Do not match	B

**B** ▶ GO TO STEP 9

**A**  
▼

## 8. REPLACE TIRE PRESSURE WARNING VALVE AND TRANSMITTER

(a) Replace the tire pressure warning valve and transmitter  .

### NEXT



## 9. PERFORM REGISTRATION OF TRANSMITTER ID

(a) Perform registration  .

### NEXT



## 10. CONFIRM TIRE INFLATION PRESSURE (DATA LIST)

- (a) Turn the ignition switch OFF.
- (b) Connect the Techstream to the DLC3.
- (c) Turn the ignition switch ON and turn the Techstream on.
- (d) Enter the following menus: Chassis / Tire Pressure Monitor / Data List /
- (e) Check the values by referring to the table below.

### Tire Pressure Monitor

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ID1 Tire Inflation Pressure	ID1 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ID2 Tire Inflation Pressure	ID2 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID3 Tire Inflation Pressure	ID3 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID4 Tire Inflation Pressure	ID4 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID5 Tire Inflation Pressure	ID5 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*


**HINT:**

- \*: It may take about 2 or 3 minutes until the values are displayed.
- When "ID Tire Inflation Pressure" data has not changed, reset the tire pressure to the appropriate specified value and rotate the tire 90 to 270°. Then rapidly release the tire pressure and recheck it.

**Result**

RESULT	PROCEED TO
Tire pressure values are not displayed.	A
All tire pressure readings are equal to specified values.	B

**A****11. REPLACE TIRE PRESSURE WARNING ANTENNA AND RECEIVER**

(a) Replace the tire pressure warning antenna and receiver  .

**NEXT****12. CONFIRM TIRE INFLATION PRESSURE (DATA LIST)**

- (a) Turn the ignition switch OFF.
- (b) Connect the Techstream to the DLC3.
- (c) Turn the ignition switch ON and turn the Techstream on.
- (d) Enter the following menus: Chassis / Tire Pressure Monitor / Data List /
- (e) Check the values by referring to the table below.

**Tire Pressure Monitor**

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ID1 Tire Inflation Pressure	ID1 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID2 Tire Inflation Pressure	ID2 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ID3 Tire Inflation Pressure	ID3 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID4 Tire Inflation Pressure	ID4 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*
ID5 Tire Inflation Pressure	ID5 tire inflation pressure/ min.: Absolute pressure / 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi), Relative pressure / -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) max.: Absolute pressure / 637.5 kPa (6.5 kgf/cm <sup>2</sup> , 92 psi), Relative pressure / 537.5 kPa (5.4 kgf/cm <sup>2</sup> , 78 psi)	Actual tire inflation pressure	If 0 kPa (0 kgf/cm <sup>2</sup> , 0 psi) is displayed for absolute pressure or -100 kPa (-1 kgf/cm <sup>2</sup> , -14 psi) is displayed for relative pressure, data has not been received.*

**HINT:**

- \*: It may take about 2 or 3 minutes until the values are displayed.
- When "ID Tire Inflation Pressure" data has not changed, reset the tire pressure to the appropriate specified value and rotate the tire 90 to 270°. Then rapidly release the tire pressure and recheck it.

**Result**

RESULT	PROCEED TO
Tire pressure values are not displayed.	A
All tire pressure readings are equal to specified values.	B

**B** ▶ END

**A** ▶ REPLACE TIRE PRESSURE WARNING ECU