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| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** TIRE PRESSURE MONITORING: TIRE PRESSURE WARNING SYSTEM: TIRE PRESSURE WARNING VALVE AND TRANSMITTER; 2013 MY RAV4 [12/2012 - ] | | |

# TIRE PRESSURE WARNING VALVE AND TRANSMITTER

## 1. CONSTRUCTION

(a) The tire pressure warning valve and transmitters are integrated in the tire valves. Each tire pressure warning valve and transmitter consists of a lithium battery, sensor and transmitter.

(b) Make sure not to damage the urethane-covered backside of the transmitter (the surface opposite to the side with the ID code) with anything sharp.*

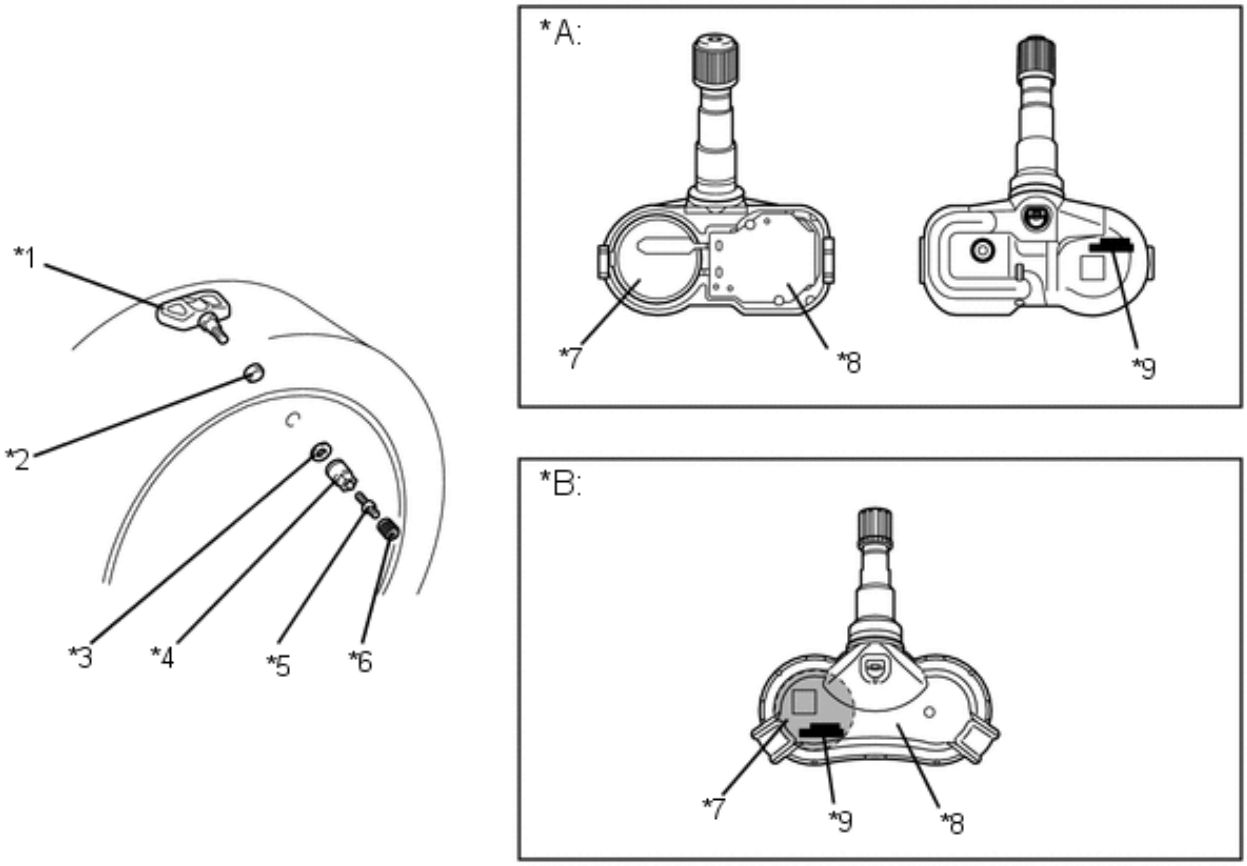
*: Models with transmitter supplied by Pacific Industrial Co., Ltd

(c) The transmitter directly measures tire inflation pressure and temperature to see if the vehicle can continue to run.

(d) The transmitter transmits the measured tire inflation pressure and temperature values to the tire pressure warning antenna at a frequency of 314.98 MHz.

(e) Depending on the timing of the data transmission, it may take several minutes to receive the data from the tire pressure warning valve and transmitter.

(f) The ID code is written on the tire pressure warning valve and transmitter.

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| *A | Models with Transmitter Supplied by Pacific Industrial Co., Ltd | *B | Models with Transmitter Supplied by TRW Automotive |
| *1 | Tire Pressure Warning Valve and Transmitter | *2 | Grommet |
| *3 | Washer | *4 | Nut |
| *5 | Tire Valve Core | *6 | Cap |
| *7 | Lithium Battery | *8 | Sensor and Transmitter |
| *9 | ID Code (7 Digit Hexadecimal) | - | - |

**HINT:**

- The lithium batteries of the tire pressure warning valve and transmitter are non-replaceable. If the lithium battery is depleted, the tire pressure warning valve and transmitter must be replaced (battery life: approximately 10 years).
- When replacing a tire pressure warning valve and transmitter, the ID codes of each tire pressure warning valve and transmitters must be registered. If even one of the tire pressure warning valve and transmitters is replaced, the ID codes of all tire pressure warning valve and transmitters must be registered again. Record all existing ID codes before beginning the process to enter new ID codes.
- To register an ID codes, use the Techstream to enter the ID codes that are indicated on the tire pressure warning valve and transmitter.
- Be careful not to damage the tire pressure warning valve and transmitters when removing and reinstalling them.
- Replace the grommet, valve core, washer and nut with new ones when replacing or removing and reinstalling the tire pressure warning valve and transmitter. This is necessary to ensure sealing performance.
- When replacing a valve cap, use only the specified cap. If an unspecified cap is used, it may seize to the tire pressure warning valve and transmitter.
- For details, refer to the Repair Manual.