

# Basic Diagnostic Procedure

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

##### CAUTION:

Before removal or installation, be sure to remove any foreign matter (dust, moisture, oil, etc.) from the TPMS & keyless entry CM connector or TPMS CM connector.

##### NOTE:

To check harness for open or short circuits, shake the suspected trouble spot or connector.

Step	Check	Yes	No
<b>1</b> <b>CHECK PRE-INSPECTION.</b> 1) Check with the user regarding when the warning light lit or started blinking. 2) Before performing diagnostics, check all components which may adversely affect the tire pressure monitor system. <Ref. to TPM(diag)-4, INSPECTION, General Description.>	Is the component that might affect the tire pressure monitor system normal?	Go to step 2.	Repair or replace each component.
<b>2</b> <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> 1) Turn the ignition switch to OFF. 2) Connect the Subaru Select Monitor to data link connector. 3) Turn the ignition switch to ON and run the Subaru Select Monitor. <b>NOTE:</b> If the communication function of the Subaru Select Monitor cannot be executed normally, check the communication circuit. <Ref. to TPM(diag)-10, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, INSPECTION, Subaru Select Monitor.> 4) Read the DTC. <Ref. to TPM(diag)-13, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is DTC displayed?	Go to step 4.	Go to step 3.
<b>3</b> <b>PERFORM GENERAL DIAGNOSTICS.</b> 1) Perform the inspection by referring to "General Diagnostic Table". <Ref. to TPM(diag)-37, General Diagnostic Table.> 2) Perform the Clear Memory Mode. <Ref. to TPM(diag)-14, OPERATION, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to TPM(diag)-18, Inspection Mode.> 4) Read the DTC. <Ref. to TPM(diag)-13, OPERATION, Read Diagnostic Trouble Code (DTC).> Check the DTC is not displayed.	Does the tire pressure warning light illuminates for about 2 seconds and then goes off after turning on the ignition switch, and then go out?	Finish the diagnosis.	Check the tire inflation pressure warning light. <Ref. to TPM(diag)-19, Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern.>

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Step	Check	Yes	No
<b>4</b> <b>CHECK FOR REPRODUCTION OF MAL-FUNCTION.</b> 1) Perform the drive test. Drive the vehicle at 40 km/h (25 MPH) or faster for at least 10 minutes. 2) Read the DTC. <Ref. to TPM(diag)-13, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is the DTC displayed as "Current malfunction"?	Go to step 5.	When DTC is detected as "Past faults", the circuit has returned to a normal condition at this time. Reproduce the failure, and then perform the diagnosis again.  <b>NOTE:</b> In this case, a temporary communication error due to radio wave environment inside and outside the vehicle may be possible.
<b>5</b> <b>PERFORM DIAGNOSIS.</b> 1) Refer to "List of Diagnostic Trouble Code (DTC)". 2) Correct the cause of trouble. 3) Perform the Clear Memory Mode. <Ref. to TPM(diag)-14, OPERATION, Clear Memory Mode.> 4) Perform the drive test. Drive the vehicle at 40 km/h (25 MPH) or faster for at least 10 minutes. 5) Read the DTC. <Ref. to TPM(diag)-13, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is DTC displayed?	Repeat steps 1 to 4 until DTC is not shown.	Finish the diagnosis.