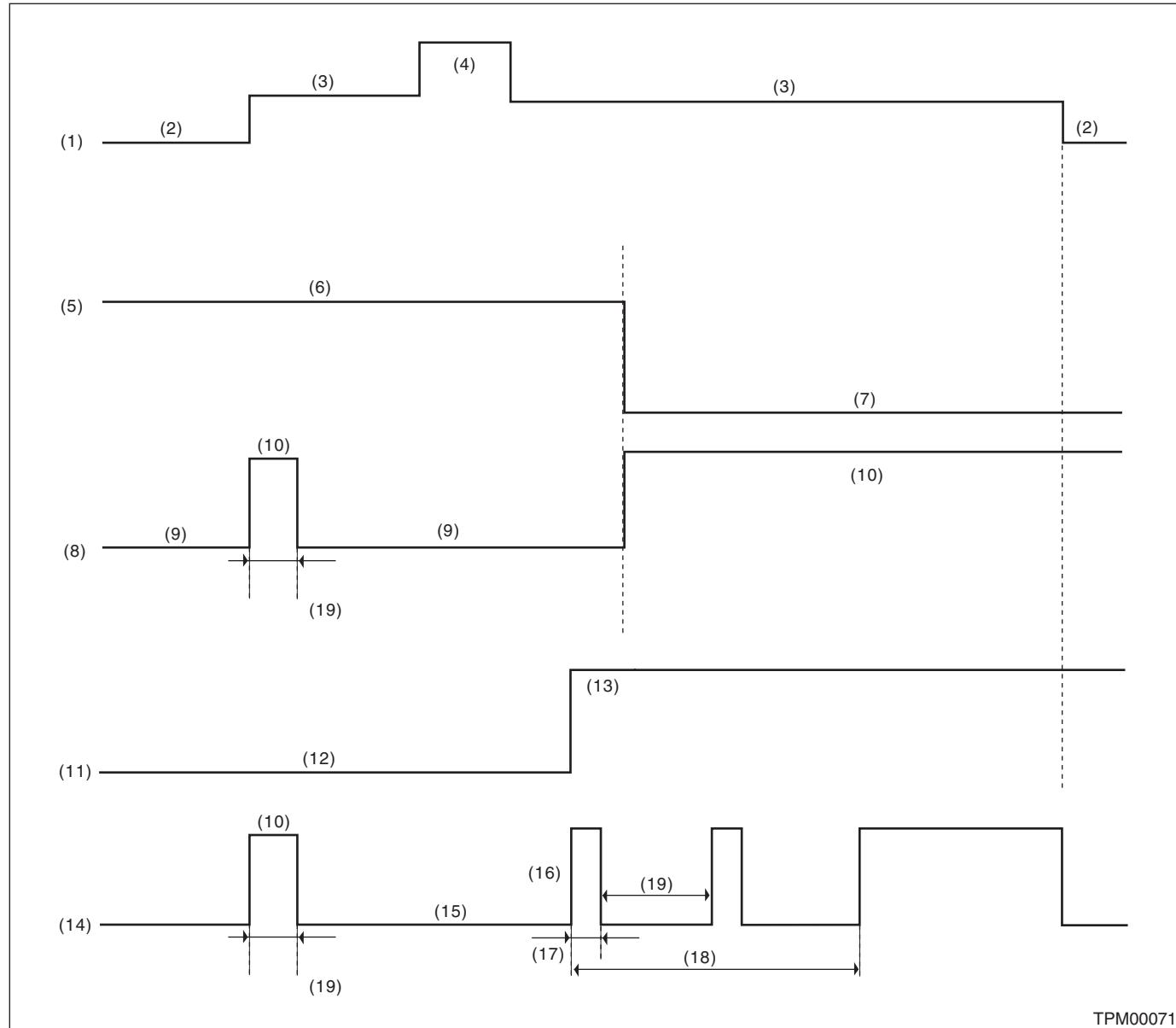


### 9. Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

#### A: INSPECTION



(1) Ignition switch	(8) Tire inflation pressure warning light (pressure condition)	(15) Light OFF
(2) OFF	(9) Light OFF	(16) Blink
(3) ON	(10) Light ON	(17) 1 second
(4) Start	(11) System status	(18) Blinks 25 times
(5) Tire inflation pressure	(12) Normal	(19) 2 seconds
(6) Meet the specification	(13) Malfunction	
(7) Less than standard value (For the pressure warning level, refer to CURRENT DATA.) <Ref. to TPM(diag)-8, DATA DISPLAY, OPERATION, Subaru Select Monitor.>	(14) Tire inflation pressure warning light (system condition)	

# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

- 1) When the tire pressure warning light does not illuminate in accordance with this illumination pattern, there must be an electrical malfunction.
- 2) If the tire pressure warning light does not go off, check the TPMS & keyless entry control module/warning light circuit and the combination meter circuit. *<Ref. to TPM(diag)-17, TIRE PRESSURE WARNING LIGHT DOES NOT COME OFF, Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern.>*

### NOTE:

If the problem is fixed while driving at approximately 40 km/h (25 MPH) after the tire pressure warning light blinks/lights, the warning light goes out and the tire pressure monitor system operates normally. (If there is a decrease in tire pressure, or a malfunction of the system, the malfunction history is displayed.)

## B: TIRE PRESSURE WARNING LIGHT DOES NOT COME ON

### DETECTING CONDITION:

Defective combination meter

### TROUBLE SYMPTOM:

When the ignition switch is turned to ON, the tire pressure warning light does not turn on (for approx. 2 seconds).

Step	Check	Yes	No
1 <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> Connect the Subaru Select Monitor, and read the Diagnostic Trouble Code. <i>&lt;Ref. to TPM(diag)-7, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.&gt;</i>	Is diagnostics code (DTC) displayed?	Perform the diagnosis according to the DTC. <i>&lt;Ref. to TPM(diag)-20, List of Diagnostic Trouble Code (DTC).&gt;</i>	Replace the combination meter. <i>&lt;Ref. to IDI-16, REMOVAL, Combination Meter.&gt;</i>

### C: TIRE PRESSURE WARNING LIGHT DOES NOT COME OFF

#### DETECTING CONDITION:

- Defective combination meter
- Tires pressure drop
- Transmitter ID not registered

#### TROUBLE SYMPTOM:

Tire pressure warning light remains illuminating after engine starts.

Step	Check	Yes	No
1 <b>CHECK DTC.</b> Connect the Subaru Select Monitor, and read the Diagnostic Trouble Code. <Ref. to TPM(diag)-7, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.>	Is a DTC displayed?	Perform the diagnosis according to the DTC. <Ref. to TPM(diag)-20, List of Diagnostic Trouble Code (DTC).>	Go to step 2.
2 <b>CHECK TRANSMITTER (ID).</b> Display the transmitter ID of the tire pressure monitor system.	Is the transmitter ID registered?	Go to step 3.	Register the transmitter ID. <Ref. to TPM(diag)-9, REGISTER TRANSMITTER ID, OPERATION, Subaru Select Monitor.>
3 <b>CHECK TRANSMITTER DATA OUTPUT.</b> 1) Select data display of the tire pressure monitoring. 2) Start the engine and check the tire pressure warning light output.	Is the warning light output ON?	Replace the TPMS & keyless entry control module. <Ref. to WT-8, TPMS & KEY-LESS ENTRY CONTROL MODULE, REMOVAL, Tire Pressure Monitoring System.>	Replace the combination meter. <Ref. to IDI-16, REMOVAL, Combination Meter.>

# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

### D: TIRE PRESSURE WARNING LIGHT IS 25 TIMES BLINKING AND TURN ON

#### DETECTING CONDITION:

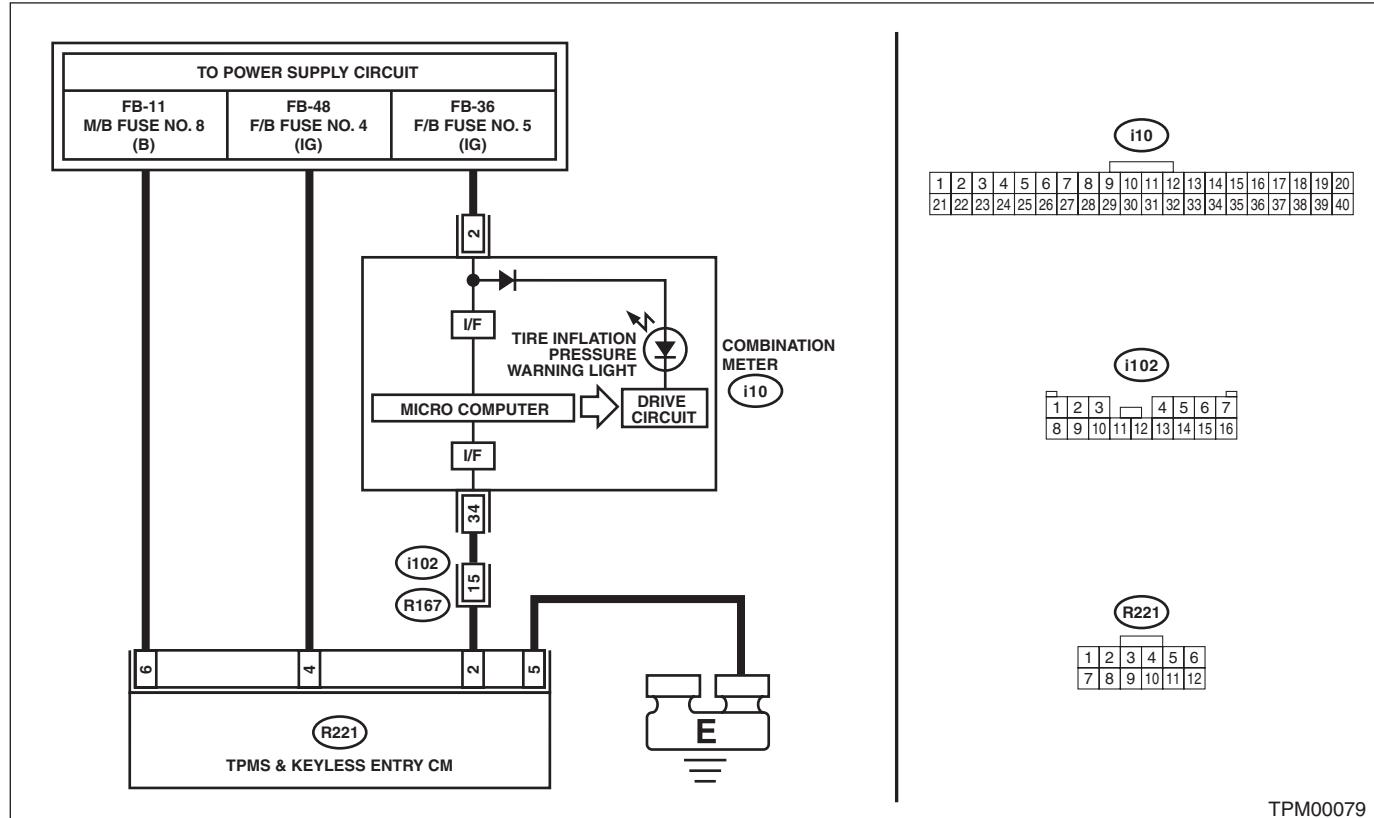
- Defective TPMS & keyless entry control module
- Defective harness
- Transmitter is faulty.

#### TROUBLE SYMPTOM:

Every time the engine starts, tire pressure warning light blinks 25 times and then illuminates.

#### WIRING DIAGRAM:

Tire Pressure Monitoring System <Ref. to WI-71, WIRING DIAGRAM, Tire Pressure Monitoring System.>



TPM00079

Step	Check	Yes	No
1 <b>CHECK DTC.</b> Connect the Subaru Select Monitor, and read the Diagnostic Trouble Code. <Ref. to TPM(diag)-7, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.>	Is diagnostics code (DTC) displayed?	Perform the diagnosis according to the DTC. <Ref. to TPM(diag)-20, List of Diagnostic Trouble Code (DTC).>	Go to step 2.
2 <b>CHECK HARNESS.</b> 1) Connect the Subaru Select Monitor to the terminal No. 2 of the TPMS & keyless entry control module connector (R221).  <i>Connector &amp; terminal</i> <b>(R221) No. 2 (+) — Chassis ground (-):</b> 2) Turn the ignition switch to ON, and select "Oscilloscope" from the Main Menu of Subaru Select Monitor. 3) Check the voltage displayed.	Is the voltage 10 V or more?	Go to step 3.	Go to step 4.

# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<b>3 CHECK HARNESS.</b> 1) Check the output waveform displayed in the oscilloscope of Subaru Select Monitor.	Is the pattern the same output waveform as shown in the figure? (1) $400 \pm 9$ ms Duty 50% High: Battery voltage Low: 1.5 V or less	Check the combination meter. <Ref. to IDI-5, INSPECTION, Combination Meter System.>	Replace the TPMS & keyless entry control module. <Ref. to WT-8, REMOVAL, Tire Pressure Monitoring System.>
<b>4 CHECK HARNESS.</b> 1) Disconnect the TPMS & keyless entry control module connector. 2) Connect the Subaru Select Monitor to the terminal No. 2 of the TPMS & keyless entry control module connector (R221). <b>Connector &amp; terminal</b> <b>(R221) No. 2 (+) — Chassis ground (-):</b> 3) Turn the ignition switch to ON, and select "Oscilloscope" from the Main Menu of Subaru Select Monitor. 4) Check the voltage displayed.	Is the voltage 10 V or more?	Replace the TPMS & keyless entry control module. <Ref. to WT-8, REMOVAL, Tire Pressure Monitoring System.>	The harness between the combination meter connector and the TPMS & keyless entry control module connector is shorted or open. Repair or replace the harness.