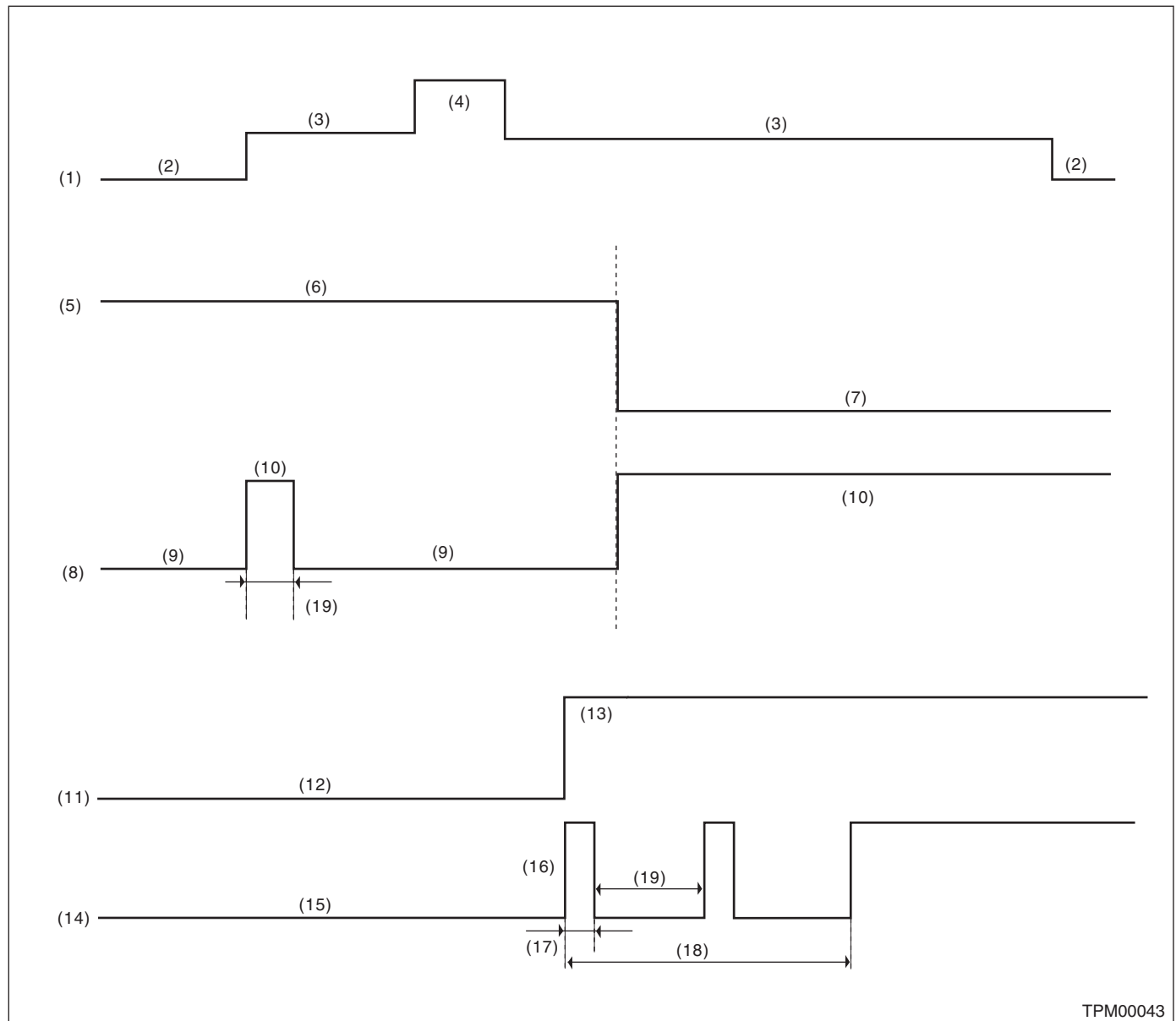


# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

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

### A: INSPECTION



TPM00043

- |  |                                  |                     |
|--|----------------------------------|---------------------|
| (1) Ignition switch  | (8) Tire pressure warning light  | (15) Light OFF      |
| (2) OFF  | (9) Light OFF                    | (16) Blink          |
| (3) ON   | (10) Light ON                    | (17) 1 second       |
| (4) Start  | (11) System status               | (18) Blink 25 times |
| (5) Tire pressure  | (12) Normal                      | (19) 2 seconds      |
| (6) Meet the specification   | (13) Malfunction                 |                     |
| (7) 17 inch car: 180 kPa<br>(1.8 kgf/cm <sup>2</sup> , 26 psi), or less<br>16 inch car: 165 kPa<br>(1.7 kgf/cm <sup>2</sup> , 23.9 psi), or less | (14) Tire pressure warning light |                     |

# **Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern**

## **TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)**

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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 tire pressure monitoring control module/warning light circuit and the combination meter circuit. <Ref. to TPM(diag)-22, 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.)

Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

B: TIRE PRESSURE WARNING LIGHT DOES NOT COME ON

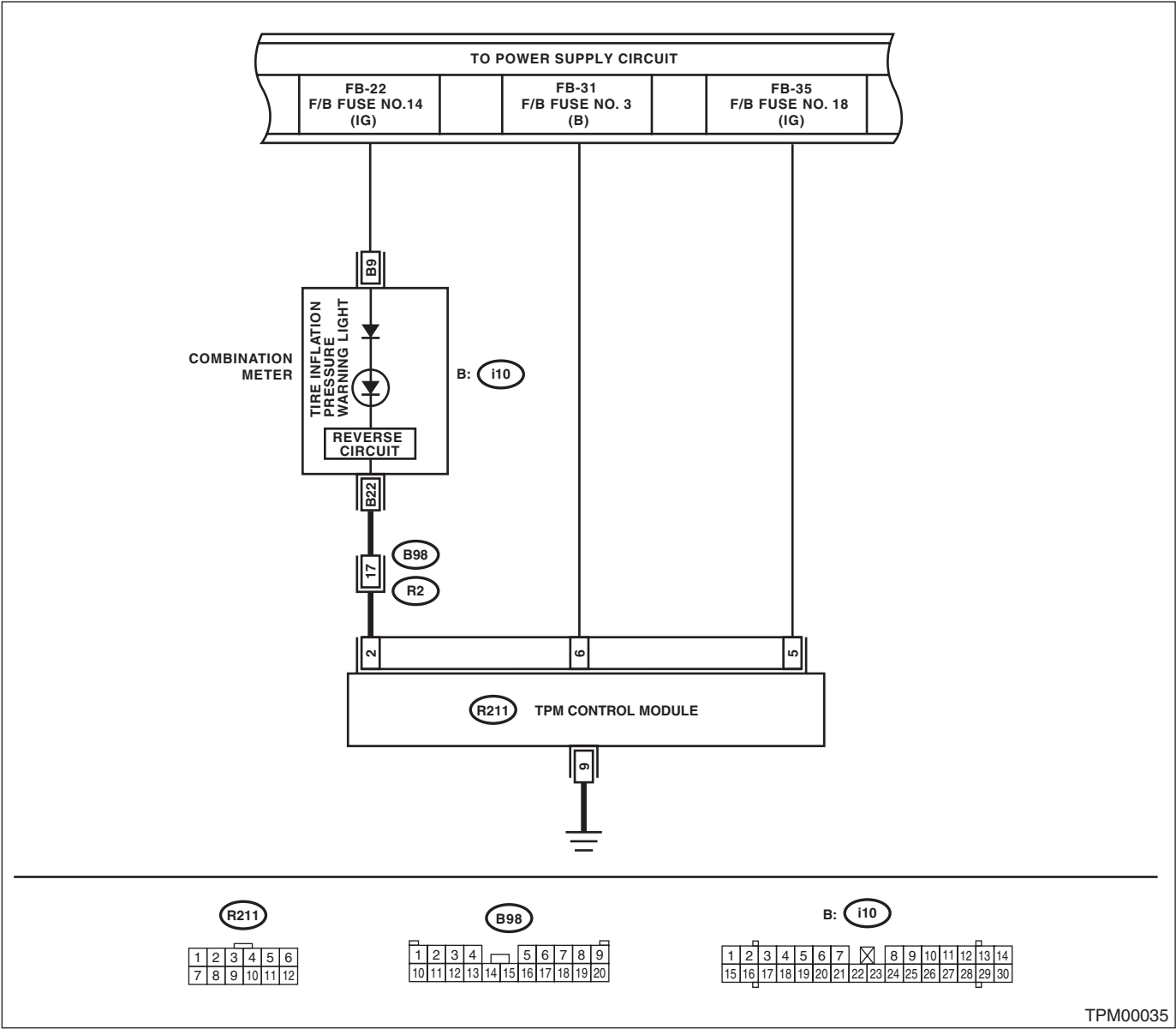
DETECTING CONDITION:

Defective combination meter

TROUBLE SYMPTOM:

When the ignition switch is turned to ON (engine OFF), the tire pressure warning light does not come on (for approximately 2 seconds).

WIRING DIAGRAM:



Step	Check	Yes	No
1	<b>CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> Connect the Subaru Select Monitor, and read the Diagnostic Trouble Code. <Ref. to TPM(diag)-8, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.>	Perform the diagnosis according to the DTC. <Ref. to TPM(diag)-26, List of Diagnostic Trouble Code (DTC).>	Replace the combination meter. <Ref. to IDI-10, REMOVAL, Combination Meter.>

# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

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

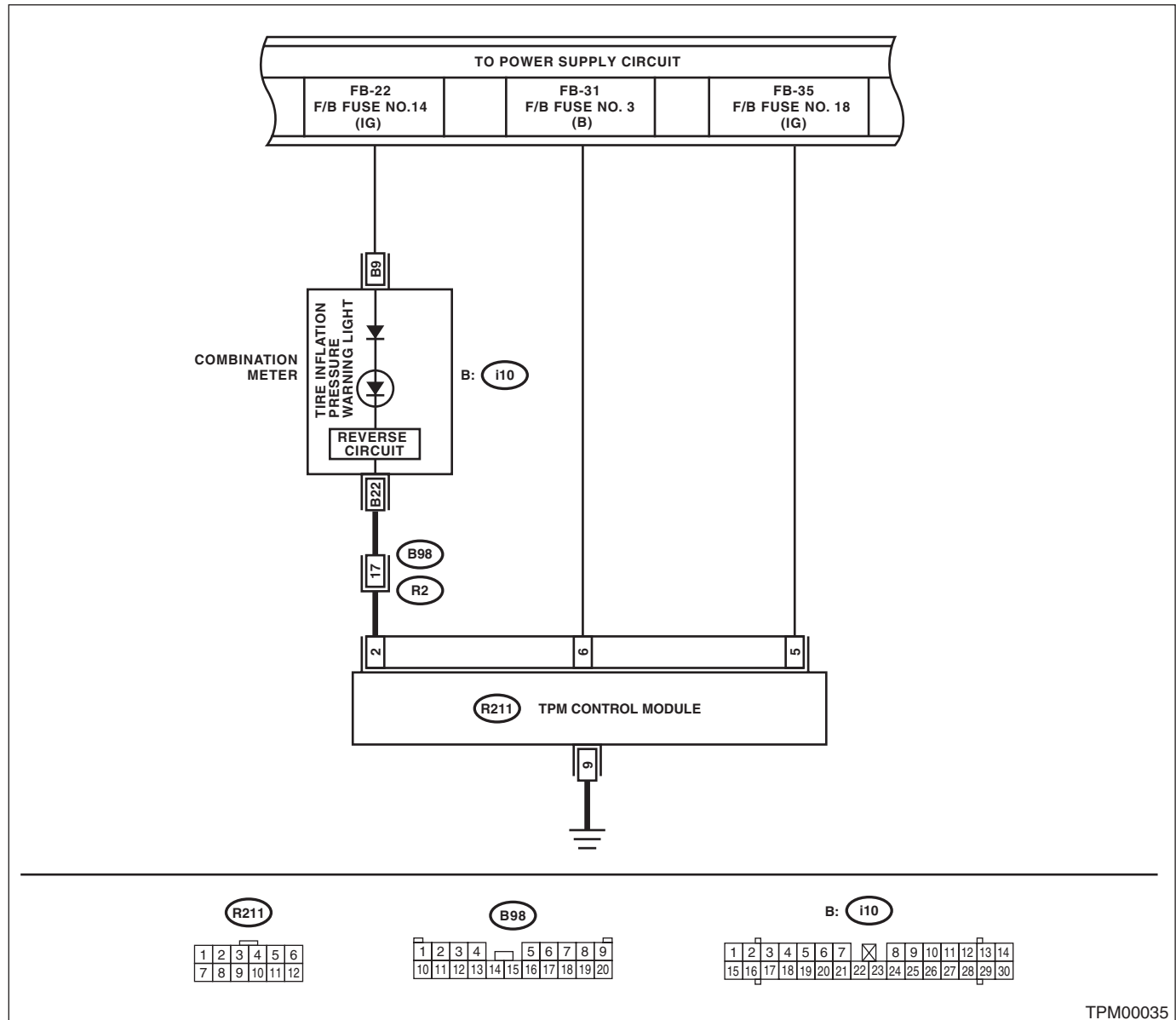
#### DETECTING CONDITION:

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

#### TROUBLE SYMPTOM:

Tire pressure warning light does not go off after engine starts.

#### WIRING DIAGRAM:



TPM00035

# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

Step		Check	Yes	No
1	<b>CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> Connect the Subaru Select Monitor, and read the Diagnostic Trouble Code. <Ref. to TPM(diag)-8, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.>	Is DTC displayed?	Perform the diagnosis according to the DTC. <Ref. to TPM(diag)-26, 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)-10, 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 tire pressure monitoring control module. <Ref. to WT-11, TIRE PRESSURE MONITORING CONTROL MODULE, REMOVAL, Tire Pressure Monitoring System.>	Replace the combination meter. <Ref. to IDI-10, REMOVAL, Combination Meter.>

# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

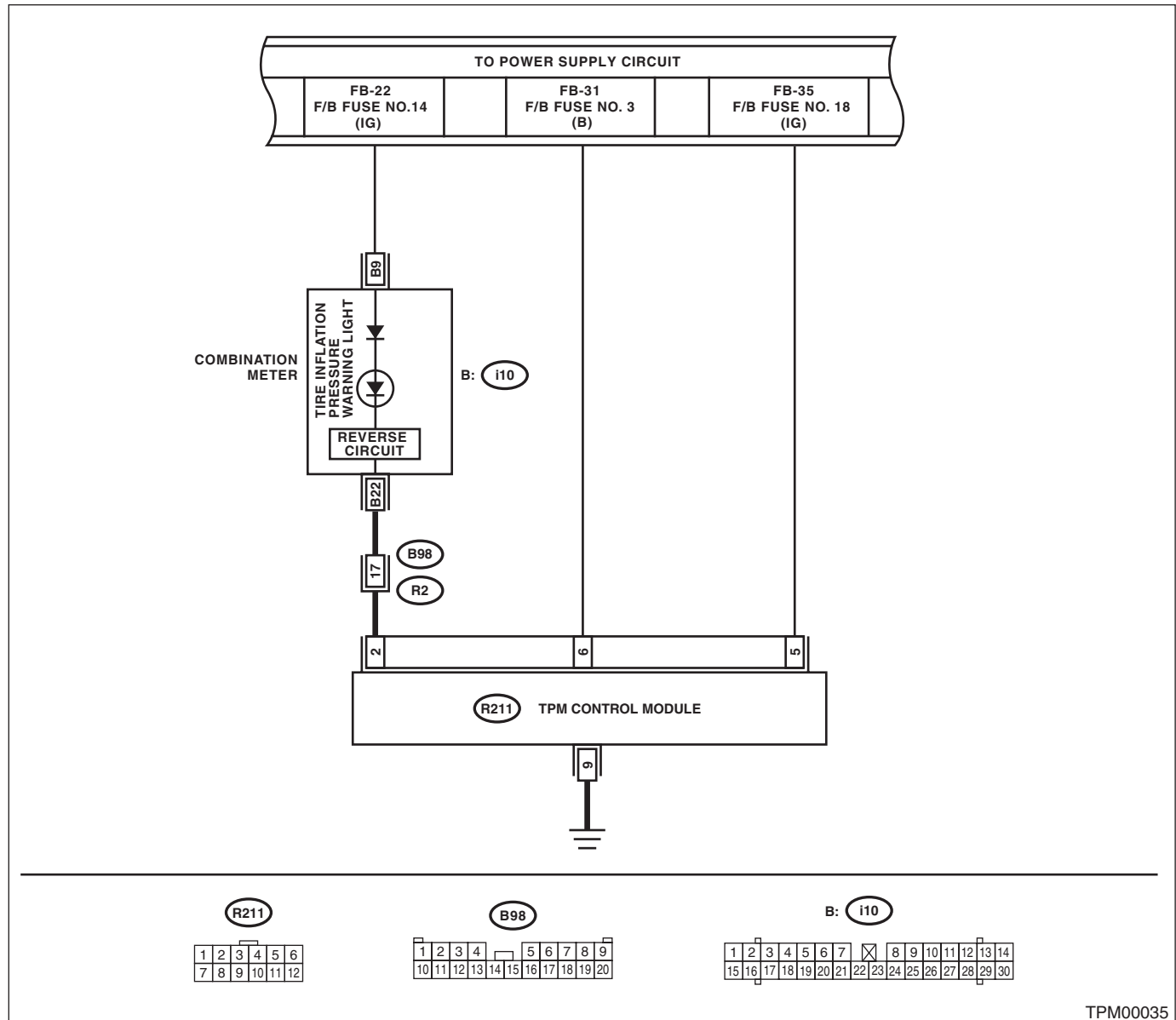
### D: TIRE PRESSURE WARNING LIGHT IS 25 TIMES BLINKING AND TURN ON DETECTING CONDITION:

- Tire pressure monitoring control module is faulty.
- Defective harness
- Transmitter is faulty.

### TROUBLE SYMPTOM:

Whenever starting the engine, tire pressure warning light blinks 25 times and is lit.

### WIRING DIAGRAM:



# Tire Pressure Warning Light / Trouble Indicator Light Illumination Pattern

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<b>1 CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> Connect the Subaru Select Monitor, and read the Diagnostic Trouble Code. <Ref. to TPM(diag)-8, 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)-26, List of Diagnostic Trouble Code (DTC).>	Go to step 2.
<b>2 CHECK HARNESS.</b> 1) Connect the Subaru Select Monitor to the terminal No. 2 of the tire pressure monitoring control module connector (R211). <b>Connector &amp; terminal</b> <b>(R211) No. 2 (+) — Chassis ground (-):</b> 2) Turn the ignition switch to ON, and select "Oscilloscope" on the main menu of the Subaru Select Monitor. 3) Check the displayed voltage.	Is the voltage 10 V or more?	Go to step 3.	Go to step 4.
<b>3 CHECK HARNESS.</b> 1) Check the output waveform displayed on the oscilloscope of Subaru Select Monitor. <div data-bbox="188 814 732 1148" data-label="Figure"> </div>	Is the output waveform displayed as shown in the figure? (1) 400±20 ms Duty 50% High: Battery voltage Low: 1.5 V or less	Check the combination meter.	Replace the tire pressure monitoring control module. <Ref. to WT-11, REMOVAL, Tire Pressure Monitoring System.>
<b>4 CHECK HARNESS.</b> 1) Disconnect the tire pressure monitoring control module connector. 2) Connect the Subaru Select Monitor to the terminal No. 2 of the tire pressure monitoring control module connector (R211). <b>Connector &amp; terminal</b> <b>(R211) No. 2 (+) — Chassis ground (-):</b> 3) Turn the ignition switch to ON, and select "Oscilloscope" on the main menu of the Subaru Select Monitor. 4) Check the displayed voltage.	Is the voltage 10 V or more?	Replace the tire pressure monitoring control module. <Ref. to WT-11, REMOVAL, Tire Pressure Monitoring System.>	The harness is open between the combination meter connector and the tire pressure monitoring control module connector. Repair or replace the harness.