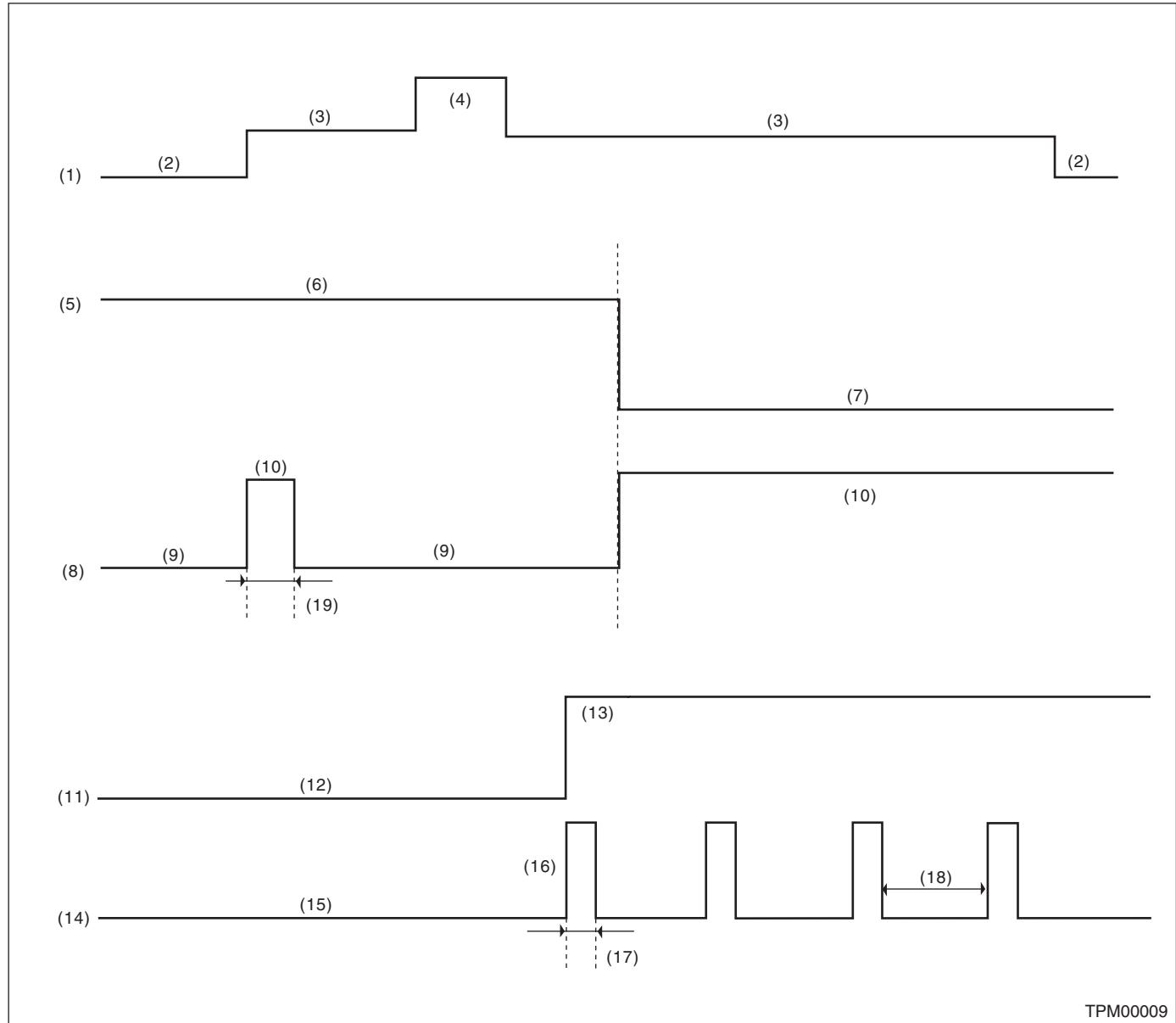


### 9. Tire Pressure Warning Light/Trouble Indicator Light Illumination Pattern (DTC)

#### A: INSPECTION



|  |                                 |                                  |
|--|---------------------------------|----------------------------------|
| (1) Ignition switch                                    | (8) Tire pressure warning light | (14) Tire pressure warning light |
| (2) OFF  | (9) Light OFF                   | (15) Light OFF                   |
| (3) ON   | (10) Light ON                   | (16) Blink                       |
| (4) Start  | (11) System status              | (17) 1 second                    |
| (5) Tire pressure                                      | (12) Normal                     | (18) 3 seconds                   |
| (6) Meet the specification                             | (13) Defective                  | (19) 2 seconds                   |
| (7) 188 kPa (1.9 kgf/cm <sup>2</sup> , 27 psi) or less |                                 |                                  |

# Tire Pressure Warning Light/Trouble Indicator Light Illumination Pattern (DTC)

## 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) When 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 (DTC).>

### 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 malfunction of the system, the past malfunctions are displayed.)

## B: TIRE PRESSURE WARNING LIGHT DOES NOT ILLUMINATE

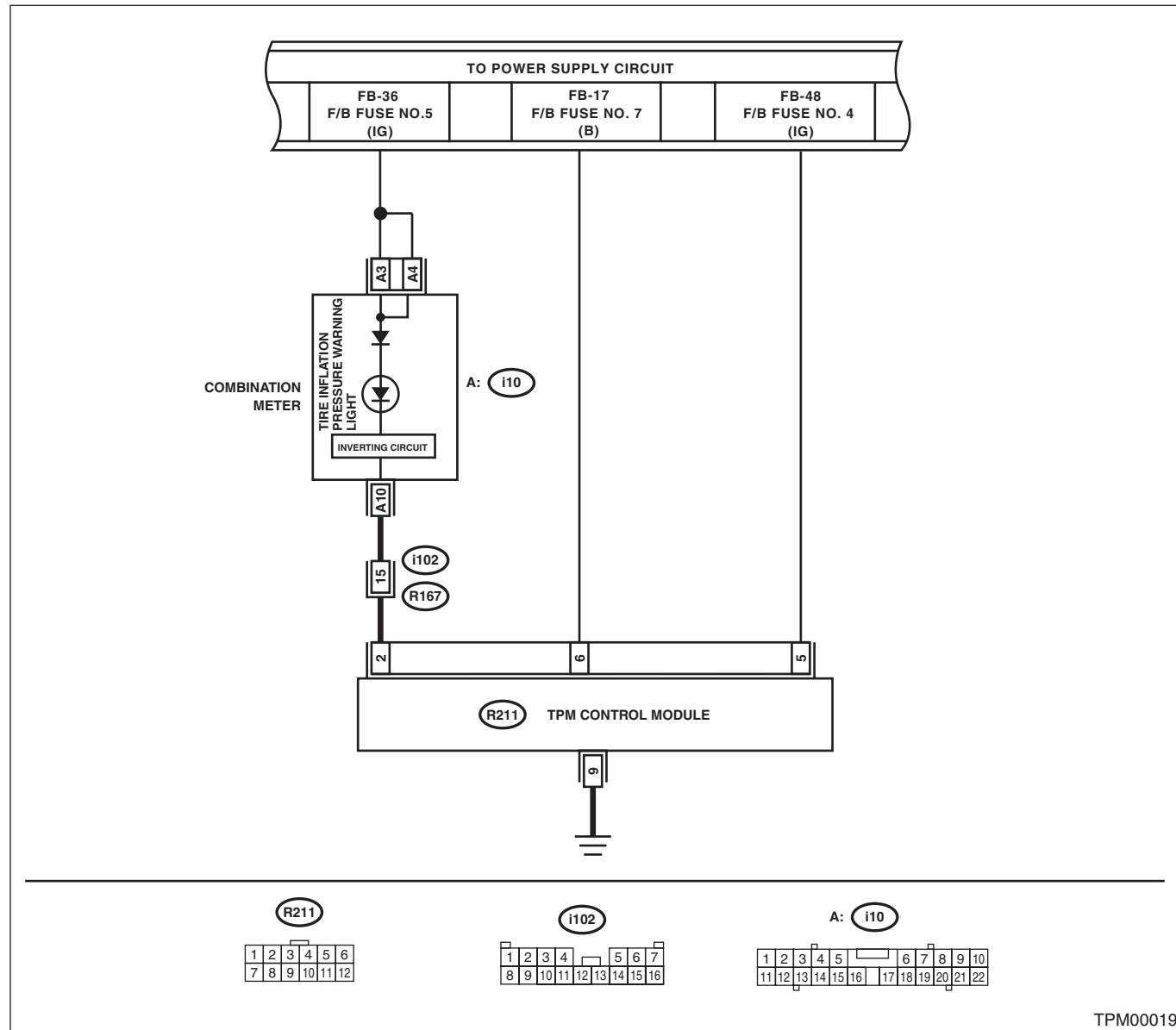
### DETECTING CONDITION:

- Defective combination meter
- Defective harness

### 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:



TPM00019

# Tire Pressure Warning Light/Trouble Indicator Light Illumination Pattern (DTC)

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

| Step  | Check   | Yes  | No  |
|---|---|--|---|
| 1 <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC)</b><br>Connect Subaru Select Monitor, read 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 DTC. <Ref. to TPM(diag)-26, List of Diagnostic Trouble Code (DTC).> | Go to step 2.   |
| 2 <b>CHECK DATA OUTPUT.</b><br>1) Select data display of the tire pressure monitoring.<br>2) Check that the warning light output is ON for approximately 2 seconds immediately after turning the ignition switch to ON.   | Is the warning light output ON for approximately 2 seconds? | Go to step 3.  | Replace the tire pressure monitoring control module. <Ref. to WT-11, TIRE PRESSURE MONITORING CONTROL MODULE, REMOVAL, Tire Pressure Monitoring System. > |
| 3 <b>CHECK HARNESS.</b><br>1) Disconnect the tire pressure monitoring control module connector.<br>2) Use a lead wire to short the terminal No. 2 of the tire pressure monitoring control module harness connector (R211) with the chassis ground, and turn the ignition switch to ON.  | Is the tire pressure warning light lit?                     | Go to step 4.  | Replace the tire pressure monitoring control module. <Ref. to WT-11, TIRE PRESSURE MONITORING CONTROL MODULE, REMOVAL, Tire Pressure Monitoring System. > |
| 4 <b>CHECK HARNESS.</b><br>1) Connect the tester to the terminal No. 2 of the tire pressure monitoring control module connector (R211)<br>2) Turn the ignition switch to ON and measure the voltage between the tire pressure monitoring control module connector and chassis ground.<br><br><i>Connector &amp; terminal<br/>(R211) No. 2 (+) — Chassis ground (-):</i> | Is the voltage more than 10 V?                              | Go to step 5.  | Replace the combination meter. <Ref. to IDI-11, REMOVAL, Combination Meter. >   |
| 5 <b>CHECK COMBINATION METER.</b><br>1) Short between the combination meter connector (i10) No. 10 and the chassis ground.<br>2) Turn the ignition switch to ON.  | Is the tire pressure warning light lit?                     | Go to step 6.  | Repair or replace the harness that is open between the combination meter connector and the tire pressure monitoring control module harness.               |
| 6 <b>CHECK HARNESS.</b><br>1) Disconnect the combination meter connector (i10).<br>2) Measure the resistance between tire pressure monitoring control module connector (i10) and chassis ground.<br><br><i>Connector &amp; terminal<br/>(i10) No. 10 — Chassis ground:</i>  | Is the resistance less than 1 $\Omega$ ?                    | Replace the combination meter. <Ref. to IDI-11, REMOVAL, Combination Meter. >                          | Repair or replace the harness that is open between the combination meter and the chassis ground.  |

# Tire Pressure Warning Light/Trouble Indicator Light Illumination Pattern (DTC)

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

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

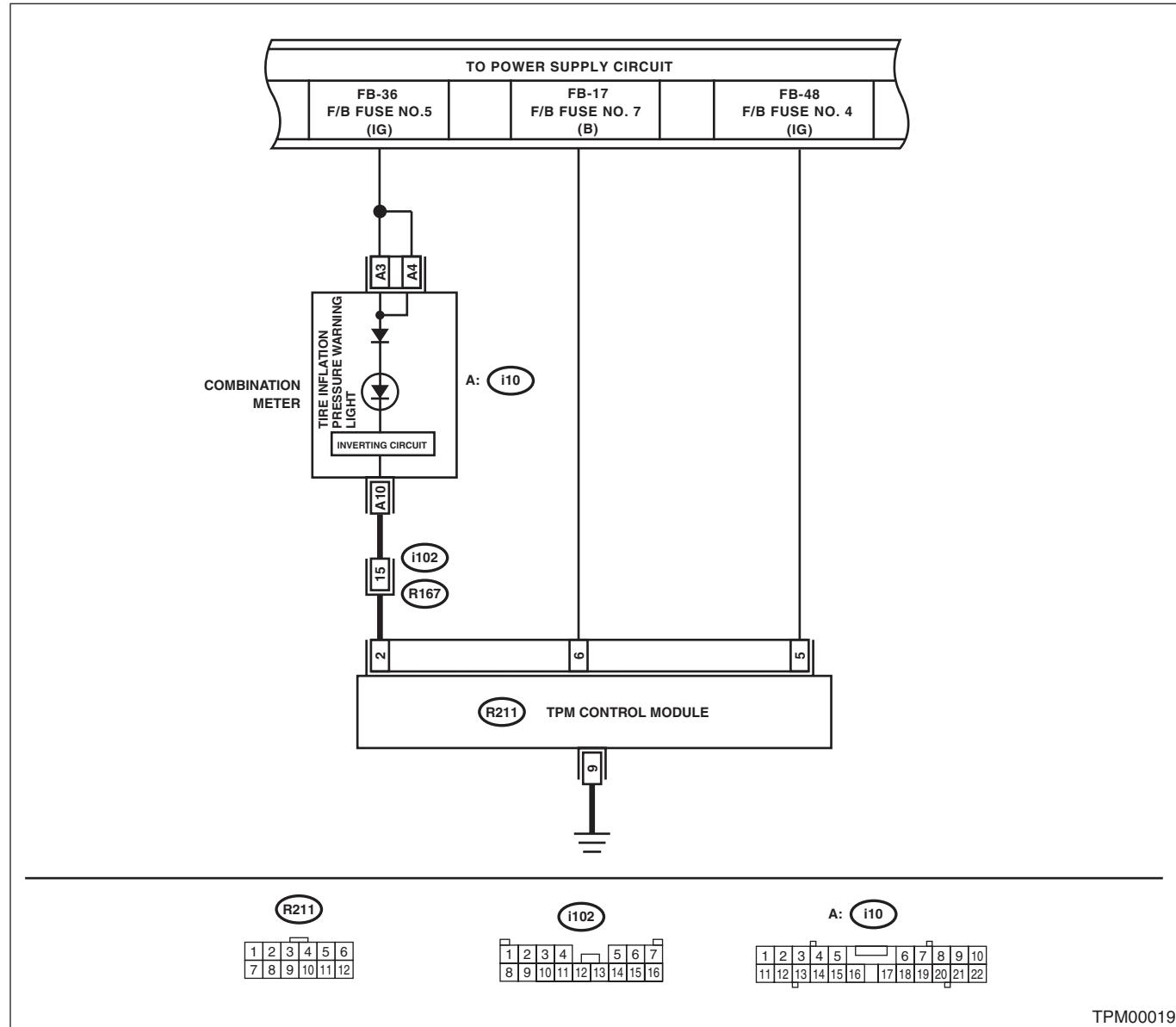
#### DETECTING CONDITION:

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

#### TROUBLE SYMPTOM:

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

#### WIRING DIAGRAM:



| Step  | Check             | Yes  | No            |
|---|-------------------|--|---------------|
| 1 <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC)</b><br>Connect Subaru Select Monitor, read 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 DTC. <Ref. to TPM(diag)-26, List of Diagnostic Trouble Code (DTC).> | Go to step 2. |

# Tire Pressure Warning Light/Trouble Indicator Light Illumination Pattern (DTC)

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

| Step  | Check                                   | Yes  | No   |
|---|---|--|--|
| 2 <b>CHECK TRANSMITTER (ID)</b><br>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><br>1) Select data display of the tire pressure monitoring.<br>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.> | Go to step 4.  |
| 4 <b>CHECK HARNESS.</b><br>1) Disconnect the tire pressure monitoring control module connector.<br>2) Connect the tester to the terminal No. 2 of the tire pressure monitoring control module connector (R211)<br>3) Turn the ignition switch to ON, and measure the voltage.<br><br><i>Connector &amp; terminal</i><br><i>(R211) No. 2 (+) — Chassis ground (-):</i> | Is the voltage more than 10 V?          | Go to step 5.  | Replace the combination meter. <Ref. to IDI-11, REMOVAL, Combination Meter.>   |
| 5 <b>CHECK COMBINATION METER.</b><br>1) Short between the combination meter connector (i10) No. 10 and the chassis ground.<br>2) Turn the ignition switch to ON.  | Is the tire pressure warning light lit? | Go to step 6.  | Repair or replace the harness that is open between the combination meter connector and the tire pressure monitoring control module harness.              |
| 6 <b>CHECK HARNESS.</b><br>1) Disconnect the combination meter connector (i10).<br>2) Measure the resistance between tire pressure monitoring control module connector (R211) and chassis ground.<br><br><i>Connector &amp; terminal</i><br><i>(R211) No. 2 — Chassis ground:</i>   | Is the resistance more than 1 MΩ?       | Replace the combination meter. <Ref. to IDI-11, REMOVAL, Combination Meter.>   | Repair or replace the harness connector short circuit between the combination meter connector and the tire pressure monitoring control module connector. |

# Tire Pressure Warning Light/Trouble Indicator Light Illumination Pattern (DTC)

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

### D: TIRE PRESSURE WARNING LIGHT IS BLINKING

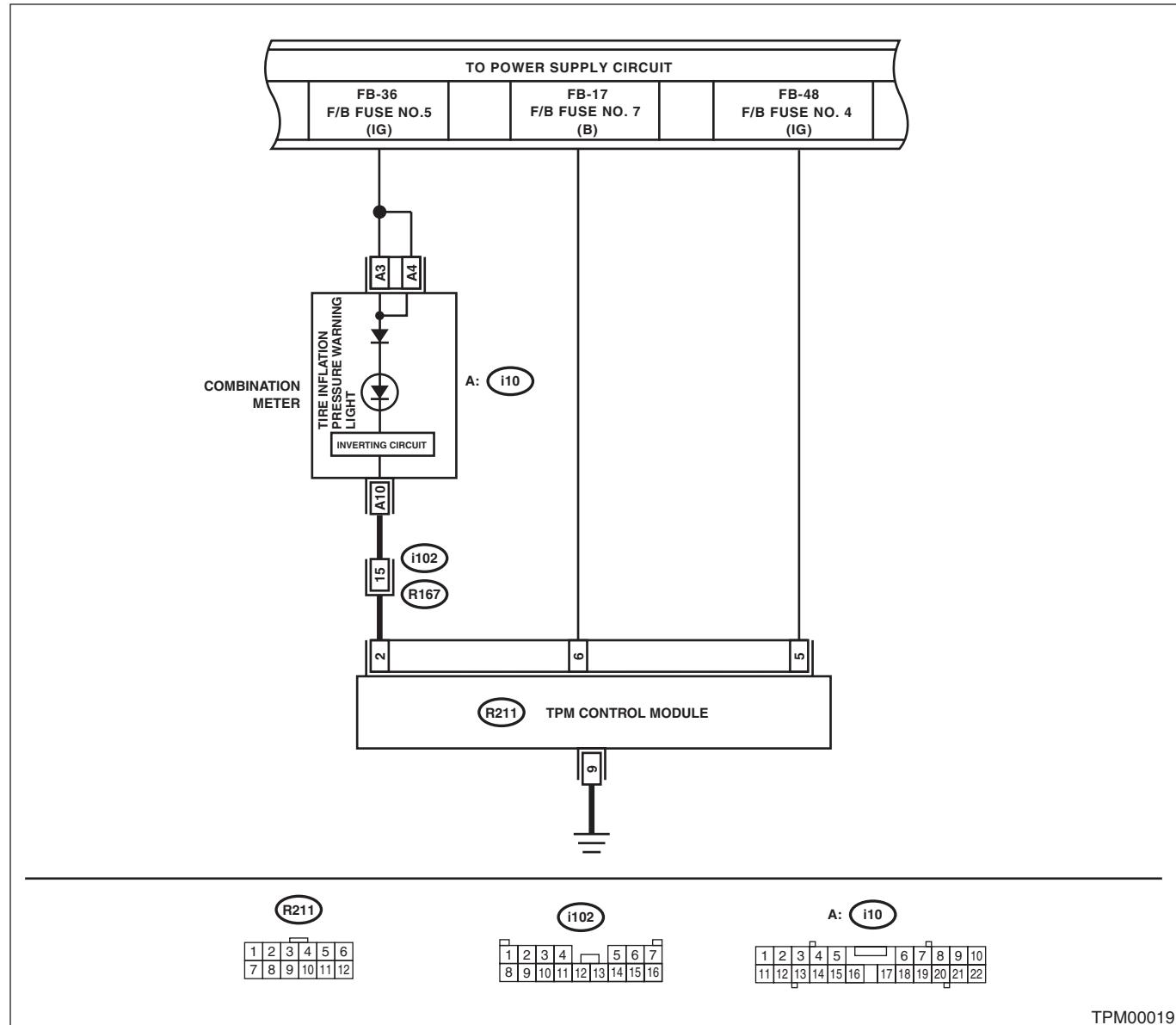
#### DETECTING CONDITION:

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

#### TROUBLE SYMPTOM:

Tire pressure warning light blinks continuously after engine starting.

#### WIRING DIAGRAM:



| Step  | Check                                | Yes  | No            |
|---|--------------------------------------|--|---------------|
| 1 <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC)</b><br>Connect Subaru Select Monitor, read 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 DTC. <Ref. to TPM(diag)-26, List of Diagnostic Trouble Code (DTC).> | Go to step 2. |

# Tire Pressure Warning Light/Trouble Indicator Light Illumination Pattern (DTC)

## TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

| Step   | Check                                   | Yes   | No  |
|--|---|---|---|
| 2 <b>CHECK HARNESS.</b><br>1) Disconnect the tire pressure monitoring control module connector.<br>2) Short the terminal No. 2 of the tire pressure monitoring control module harness connector (R211) with the chassis ground, and turn the ignition switch to ON.                  | Is the tire pressure warning light lit? | Go to step 3.   | Replace the tire pressure monitoring control module.  |
| 3 <b>CHECK HARNESS.</b><br>1) Connect the tester to the terminal No. 2 of the tire pressure monitoring control module connector (R211).<br>2) Turn the ignition switch to ON, and measure the voltage.<br><i>Connector &amp; terminal<br/>(R211) No. 2 (+) — Chassis ground (-):</i> | Is the voltage more than 10 V?          | Go to step 4.   | Replace the combination meter.<br><Ref. to IDI-11, REMOVAL, Combination Meter.>   |
| 4 <b>CHECK COMBINATION METER.</b><br>1) Short between the combination meter connector (i10) No. 10 and the chassis ground.<br>2) Turn the ignition switch to ON.   | Is the tire pressure warning light lit? | Go to step 5.   | There is an open circuit between the combination meter connector and the tire pressure monitoring control module harness.<br>Repair or replace the harness. |
| 5 <b>CHECK HARNESS.</b><br>1) Disconnect the combination meter connector (i10).<br>2) Measure the resistance between tire pressure monitoring control module connector (i10) and chassis ground.<br><i>Connector &amp; terminal<br/>(i10) No. 10 — Chassis ground:</i>               | Is the resistance more than 1 MΩ?       | Replace the combination meter.<br><Ref. to IDI-11, REMOVAL, Combination Meter.> | Repair or replace the harness connector short circuit between the combination meter connector and the tire pressure monitoring control module connector.    |