

## General Description

### TIRE PRESSURE MONITORING SYSTEM (DIAGNOSTICS)

## 2. General Description

### A: CAUTION

#### 1. SUPPLEMENTAL RESTRAINT SYSTEM “AIRBAG”

Airbag system wiring harness is routed near the TPM control module.

#### CAUTION:

- All airbag system wiring harnesses are yellow. Do not use the electrical test equipment on these circuits.
- Be careful not to damage the airbag system wiring harness when servicing the tire pressure monitoring control module.

#### 2. TIRE PRESSURE MONITORING CONTROL MODULE

- If tire rotation or changes in install locations, or replacement of the transmitter is performed, ID registration for the transmitter is required. <Ref. to TPM(diag)-9, REGISTER TRANSMITTER ID, OPERATION, Subaru Select Monitor.>
- When adjusting tire pressure indoors in winter, there is a big temperature difference between the indoor facilities and outside. Once the car is outside where the temperature is lower, the air pressure in the tires will drop, causing the tire pressure warning light to illuminate, even if the pressure in the tires was adjusted to standard values indoors. To avoid this, it is necessary to adjust the tire pressure to the high side in consideration of the difference in temperature between inside and outside according to the following table.

a. P205/50R17 and 215/45ZR17

Temperature °C (°F)	Indoor temperature	15.5 (60)		
	Ambient temperature	-1 (30)	-12 (10)	-23 (-10)
Air pressure kPa (psi)	Front	265 (38)	280 (40)	295 (42)
	Rear	250 (36)	265 (38)	280 (40)

b. 215/45R18

Temperature °C (°F)	Indoor temperature	15.5 (60)		
	Ambient temperature	-1 (30)	-12 (10)	-23 (-10)
Air pressure kPa (psi)	Front	250 (36)	265 (38)	280 (40)
	Rear	240 (35)	255 (37)	270 (39)

c. P225/60R16 and P225/55R17

Temperature °C (°F)	Indoor temperature	15.5 (60)		
	Ambient temperature	-1 (30)	-12 (10)	-23 (-10)
Air pressure kPa (psi)	Front	240 (35)	255 (37)	270 (39)
	Rear	230 (33)	245 (35)	260 (37)

### B: INSPECTION

Before performing diagnosis, check the following item which might affect the quality of the tire pressure monitoring system.

#### 1. TIRE

- Inspect that the tire pressure is within the specification while the tire is cool. (Refer to Tire Caution Label.)
- Check the tires for damage or the insertion of foreign matters.

#### 2. BATTERY

Check that amount of battery fluid, gravity and voltage are within the specifications.

**Standard voltage: 12 V or more**

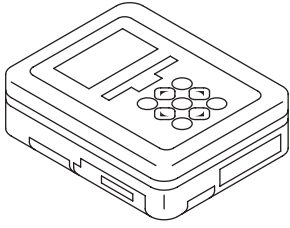
**Specific gravity: 1.260 or more**

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## C: PREPARATION TOOL

### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B020XU0	1B020XU0	SUBARU SELECT MONITOR KIT	Used for troubleshooting for electrical system.

### 2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.
Transmitter registration tool TPM-00012	Used to register the transmitter ID. Manufacturer: Kent-Moore Item number: J45295