

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:

- Do not use electrical test equipment on any of the airbag system wiring harness circuits.
- Be careful not to damage the wiring harness of the airbag system when servicing the TPMS & keyless entry CM or TPMS CM.

2. TPMS & KEYLESS ENTRY CM OR TPMS CM

- If the transmitter is replaced, ID registration for the transmitter is required. <Ref. to TPM(diag)-16, OPERATION, Register Transmitter (ID).>
- 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.
- P195/65R15, P205/55R16, P225/55R17 (CVT)

| | | | | |
|---------------------------|---------------------|-----------|----------|-----------|
| 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) |

- P205/50R17, P225/55R17 (MT)

| | | | | |
|---------------------------|---------------------|-----------|----------|-----------|
| 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) | 255 (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 the battery. <Ref. to SC(H4DO(w/o HEV))-52, Battery.>

NOTE:

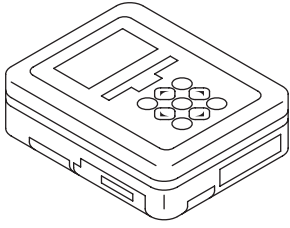
For HEV model, check the 12 volt auxiliary battery. <Ref. to SC(H4DO(HEV))-39, Battery.>

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C: PREPARATION TOOL

1. SPECIAL TOOL

| ILLUSTRATION | TOOL NUMBER | DESCRIPTION | REMARKS |
|---|-------------|-------------------------------|---|
|  ST1B022XU0 | 1B022XU0 | SUBARU SELECT MONITOR III KIT | Used for setting of each function and trouble-shooting for electrical system. NOTE: For detailed operation procedures of SUBARU SELECT MONITOR III, refer to "PC application help for Subaru Select Monitor". |

2. GENERAL TOOL

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