

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What is the difference between faults when the TPMS warning lamp is on compared with when it is flashing?

2) What are the three modes of TPMS sensor operation?

3) TPMS pressure sensors can be made by what manufacturer?

4) How does the use of wheel speed sensors detect a tire with low inflation pressure?

5) What is the difference between indirect and direct tire-pressure monitoring system?

Answer Key

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1) If the TPMS warning light is on and not flashing, the system has detected a tire that has low inflation pressure. If the TPMS warning lamp is flashing on and off or if a separate TPMS system warning light is on the system has detected a fault. Faults could include the following issues:

- Defective wheel sensors, such as a sensor with a dead battery.
- A fault in the receiver, such as in the remote keyless entry module.

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2) The three modes of operation include the Active mode, Sleep mode and Alert mode.

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3) Beru

Lear

Pacific

Schrader

Siemens

TRW

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4) A low tire will rotate faster than a properly inflated tire and this difference can be detected by the wheel speed sensors.

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5) Indirect system uses the wheel speed sensors to detect differences in the speed of the wheels. If a tire is underinflated, the following occurs:

- A tire that is underinflated will have a smaller diameter than a properly inflated tire.
- An underinflated tire will rotate faster than a properly inflated tire.

Direct tire-pressure monitoring systems (TPMSs) use individual pressure sensors located in each wheel to measure the inflation pressure.

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