Chassis Systems 8th Edition
Chapter 23

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?

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2) How does the use of wheel speed sensors detect a tire with low inflation pressu

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

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

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

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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) A low tire will rotate faster than a properly inflated tire and this difference can be detected by the wheel speed sensors.
   Page Ref: 362
3) Beru
   Lear
   Pacific
   Schrader
   Siemens
   TRW
   Page Ref: 364
4) The three modes of operation include the Active mode, Sleep mode and Alert mode.
   Page Ref: 365
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.
   Page Ref: 362-363