

TPMS – WHAT DID YOU LEARN?

SECTION A – TPMS Overview

1. The TREAD Act is?

- A. A U.S. law that requires certain vehicles to be equipped with tire pressure monitoring systems
- B. A safety tip that reminds you to replace tires if you can see the top of Lincoln's head when you stick a penny in the tire tread
- C. A and B

2. Which of these vehicles are excluded from the U.S. TREAD Act's TPMS requirements?

- A. Harley-Davidson Sportster
- B. Ford F-350 with duals on the rear axle
- C. Honda Accord
- D. A and B

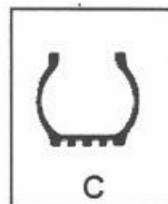
3. How do you identify if a vehicle is equipped with TPMS?

- A. Check owners manual
- B. Look to see if tires have aluminum valve stems
- C. Check dash lights on start up
- D. Use electronic learn tool to scan tire for sensors
- E. Rubber snap-in valve with longer cap and extended brass insert
- F. All of the above

4. Sensors measure and transmit:

- A. Tire pressure via wire to the ECU
- B. Tire pressure via low frequency radio wave to trip computer
- C. Tire pressure, temperature and unique ID (serial#) via low frequency radio wave to ECU
- D. None of the above

5. Which of the following is the universal symbol that appears on the dash when TPMS is present?



- A. A
- B. B
- C. C

6. TPMS and proper tire inflation affect which of the following:

- A. Decrease tire wear
- B. Improve fuel economy
- C. Improve vehicle handling
- D. Decrease braking distances
- E. Lower the risk of hydroplaning
- F. All of the above

SECTION B – Dismounting A Tire**7. Sensors can be broken by:**

- A. By removing a tire from the wheel without using the proper procedure
- B. In an accident
- C. By driving on a flat tire
- D. By hitting a curb or deep pot hole
- E. All of the above

8. Snap-in sensors should be cut and pulled from the wheel prior to removing the tire.

- A. True
- B. False

9. All TPMS sensors are attached to the base of the valve stem.

- A. True
- B. False

SECTION C - Sensor Installation**10. Which of the following tools are used to service tires installed with TPMS?**

- A. Valve core torque tool
- B. Valve nut torque tool
- C. Electronic learn tool
- D. Protocol manual
- E. All of the above

11. When re-installing clamp-in sensors:

- A. Use new grommet, nut, valve core and valve cap
- B. Tighten nut to proper torque specified in the protocol manual
- C. Tighten valve core with a valve core torque tool
- D. All of the above

12. Standard valve cores and valve caps should be used on TPMS sensors.

- A. True
- B. False

13. Galvanic corrosion is caused by?

- A. Galvanized steel in contact with rubber
- B. Dissimilar metals in contact with each other, (i.e., aluminum and brass)
- C. Road salts and moisture

14. Banded sensors are mounted on the wheel at the valve stem.

- A. True
- B. False

15. Sensors are universal. One fits all.

- A. True
- B. False

16. Service packs (grommet, core, cap, and nut) are universal for all vehicles.

- A. True
- B. False

17. Sensor batteries are:

- A. Two AA
- B. One D Cell
- C. 12-V automotive type
- D. Non-replaceable

18. Many vehicle manufacturers prohibit the use of tire sealants in TPMS equipped vehicles?

- A. True
- B. False

19. A protocol manual (e.g. Mitchell1 TPMS Guide) contains what information?

- A. List of tools required to perform tire service on TPMS equipped vehicles
- B. Nut torque specifications
- C. Re-learn procedures
- D. Tire dismounting and remounting procedures
- E. Description of the TPM system on each vehicle
- F. All of the above

20. Always install a stem-mounted sensor with the flat side facing away from the wheel.

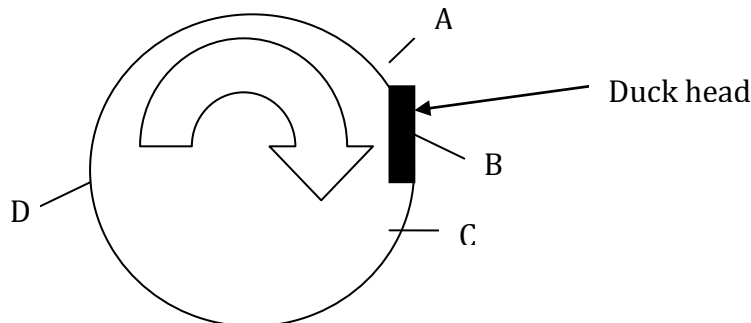
- A. True
- B. False

SECTION D – Mounting Tires

21. Recommended tire pressure can be found?

- A. On the sidewall of the tire
- B. On the placard mounted usually in the door frame or glove box
- C. Not needed since all vehicles recommend 30 p.s.i.

22. When mounting a tire, the sensor should be located in the 5 o'clock position. Which location below best describes the correct position of the sensor?



- A. A
- B. B
- C. C
- D. D

SECTION E – Re-Learn Procedures

23. After tire rotation, re-learn procedures are standard for all vehicles with TPMS.

- A. True
- B. False

24. On a location dependent vehicle, if the dash warning reads “LF Tire Low”, but the tire checks to recommended pressure and you notice that the left rear tire is low, what likely has happened?

- A. TPMS system is malfunctioning
- B. Tires were rotated without re-learn process
- C. Sensor in the left front tire is defective
- D. The vehicle in REVERSE

25. TPMS Electronic Learn Tools are used for which of the following reasons:

- A. Activate sensors
- B. Initiate new sensors
- C. Confirm that sensors are working
- D. All of the above