

Name: _____ Date: _____
Instructor: _____ Period: _____



Tire, Wheel, & Wheel Bearing Service



Objective: After studying this chapter, you will be able to service tires, wheels, and wheel bearings.

Tire, Wheel, & Wheel Bearing Diagnosis

- Problems such as steering vibration, unusual tread wear, or steering pull to one side could be caused by:
 A. steering
 B. suspension
 C. front suspension
 D. All of the above.
- List three conditions you should look for when performing a tire inspection:
A. _____
B. _____
C. _____
- List five of the most common types of visible damage: A. _____ B. _____
C. _____ D. _____ E. _____
- Which of these is **not** an impact damage? _____
 A. Punctures
 B. Cuts
 C. Cracking
 D. Tear
- Most tires have a **recommended** cold inflation pressure of _____ to _____ Pounds-per-square inch (**psi**) below the maximum listed air pressure.
- A tire's _____ can often be studied to find causes for unusual wear.
- _____ will cause excessive wear on the **outside** edges of a tire's tread, while _____ will cause excessive wear on the **middle** of the tread.
- What are some other effects of running a tire **over-inflated**? _____

- Define / describe the **tire load index**: _____

- What are some of the other effects of operating a tire **under-inflated**? _____

- How will you know the difference between a tire noise and a wheel bearing noise? _____

12. Describe the procedure to check for loose wheel bearings: _____

Tire Maintenance

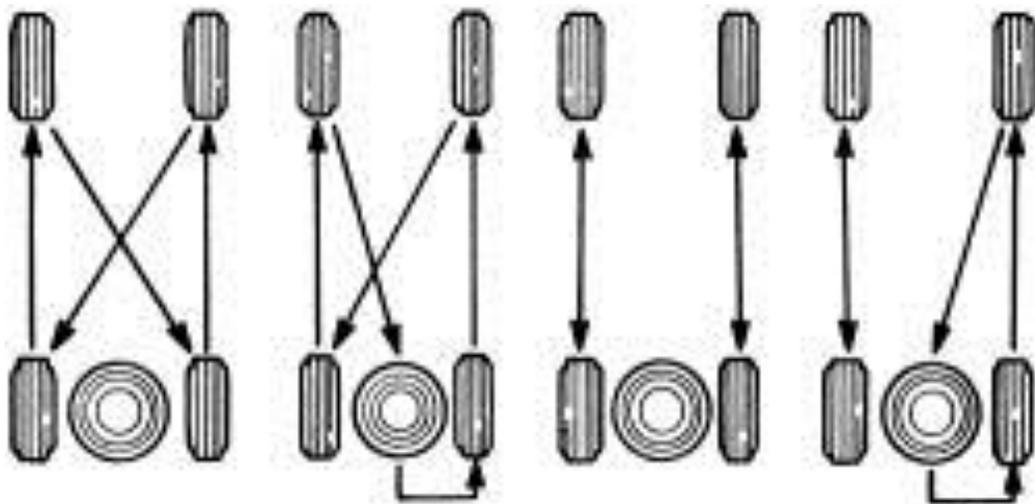
13. Correct tire maintenance involves periodic:

- A. rotation
- B. inspection
- C. checking inflation pressures
- D. All the above.

14. Where do you go to find the **correct** inflation pressure for the tires on your car? _____

15. Why is **lug-nut torque** critical on all vehicles? _____

16. Which two (2) of the illustrations **below** shows correct tire rotation for bias-ply tires?
_____ And _____



A.

B.

C.

D.

17. Which two (2) of the illustrations **above** shows correct tire rotation for radial tires?
_____ And _____

Wheel Runout & Balance

18. Describe the following tire terms:

Lateral Runout: _____

Radial Runout: _____

Tire Runout: _____

Wheel Runout: _____

19. Describe the noticeable conditions of **static** imbalance: _____

20. Describe the noticeable conditions of **dynamic** imbalance: _____

Tire Puncture Repair

21. List the **two** (2) requirements for proper tire puncture repair:
 A. _____
 B. _____
22. Plugging a leaking tire is an acceptable method of permanent repair. **True / False**

Wheel Bearing Service

23. Most modern wheel bearing assemblies are **grease able** (un-sealed) or **non-serviceable** (sealed). _____
24. Serviceable disc-brake wheel bearings require a special grease called _____

25. Front wheel bearings on front-wheel –drive vehicles are easily serviced and don't require any special methods or tools. **True / False** _____

