

Suspension System Diagnosis and Repair

Name: _____ Date: _____
Instructor: _____ Score: _____ Textbook pages 1265–1286

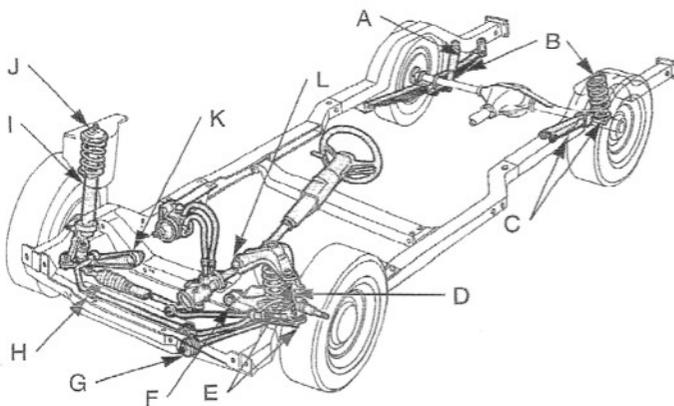
Objective: After studying this chapter, you will be able to troubleshoot and repair common suspension system problems.

Suspension System Diagnosis

1. List and explain common suspension system problems. _____

2. Label the types of problems that can develop in a suspension system.

- (A) _____
- (B) _____
- (C) _____
- (D) _____
- (E) _____
- (F) _____
- (G) _____
- (H) _____
- (I) _____
- (J) _____
- (K) _____
- (L) _____



3. What are the symptoms of bad shock absorbers? _____

4. Describe how to perform a *shock bounce test*. _____

Suspension Spring Service

5. Describe the special tool sometimes used to service coil springs. _____

6. A(n) _____ tool or _____ is commonly used to force the ball joint away from the steering knuckle. 6. _____

7. *True or False?* When replacing a rear coil spring, a spring compressor may *not* be needed. 7. _____

Ball Joint Service

8. What are some symptoms of worn ball joints? _____

9. Why must you be careful not to inject too much grease into a ball joint equipped with a balloon seal?

10. What are two ways of checking ball joint wear? _____

11. *True or False?* Always use a new cotter pin when servicing a component. 11. _____

12. List the three steps in replacing a riveted ball joint.
(A) _____
(B) _____
(C) _____

Suspension Bushing Service

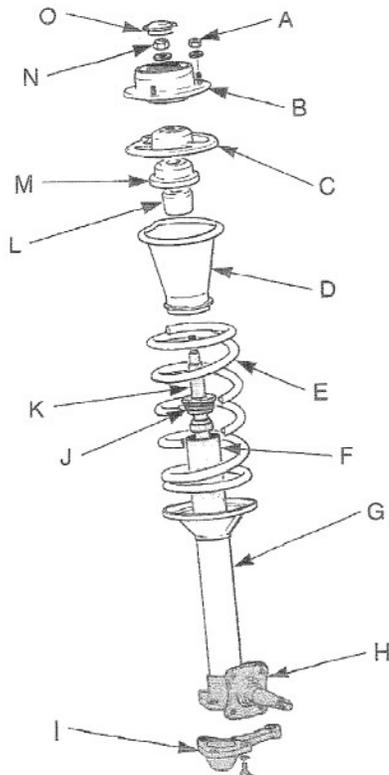
13. How do you check for control arm bushing wear? _____

14. What is *sticktion*? When can it be heard? _____

MacPherson Strut Service

15. *True or False?* The most common trouble with a MacPherson strut suspension is spring fatigue. 15. _____

16. Label the parts of the strut assembly.



- (A) _____
- (B) _____
- (C) _____
- (D) _____
- (E) _____
- (F) _____
- (G) _____
- (H) _____
- (I) _____
- (J) _____
- (K) _____
- (L) _____
- (M) _____
- (N) _____
- (O) _____

17. In your own words, explain how to replace a strut shock absorber. _____

18. How do you safely dispose of gas-filled shocks? _____

19. Always _____ all suspension systems bolts and nuts to factory specs. 19. _____

Computerized Suspension Diagnosis

20. How would you start troubleshooting an electronically controlled suspension system?

21. What faulty parts might a scan tool locate on a suspension system?

22. What can go wrong with a height sensor? _____

23. *True or False?* When replacing the shocks on electronic suspension systems, you may be able to transfer some of the electronic parts from the old units onto the new ones. 23. _____