



ASE P2 Quiz: Suspension & Steering



Offset aftermarket ball joints can be used to do what?

1. How many ball joints are in a short-long arm (SLA) front suspension?
 - a. Two upper ball joints
 - b. Two lower ball joints
 - c. Two upper and two lower ball joints
 - d. No ball joints
2. How many lower ball joints are in a MacPherson strut front suspension?
 - a. One
 - b. Two
 - c. Four
 - d. No ball joints
3. Offset aftermarket ball joints can be used to do what?
 - a. Change camber on vehicles that don't have factory adjustments
 - b. Change caster on vehicles that don't have factory adjustments
 - c. Change camber and caster on vehicles that don't have factory adjustments
 - d. Change ride height on vehicles that don't have factory adjustments
4. Counterman A says "low-friction" ball joints with polymer bushings and polished ball studs are used in most late-model vehicles to reduce friction and steering effort.

Counterman B says if the "wear indicator" on a ball joint is flush with the housing, it means the joint is new. Who is right?

 - a. Counterman A only
 - b. Counterman B only
 - c. Both Counterman A and B
 - d. Neither one
5. Which of the following components should be replaced if a vehicle's ride height is below specifications?
 - a. Tie rod ends
 - b. Ball joints
 - c. Control arm bushings
 - d. Springs
6. Which of the following components will cause "toe wear" on the tires if worn or loose?
 - a. Tie rod ends
 - b. Ball joints
 - c. Idler arm
 - d. Steering rack
7. An "electronic" steering system lacks which of the following components?
 - a. Power steering pump
 - b. Power steering fluid
 - c. Power steering hoses
 - d. All of the above
8. Counterman A says gas-charged shocks contain high-pressure gas to help support the vehicle's weight.

Counterman B says magnetic shocks and struts can change their dampening characteristics in response to changing road conditions. Who is right?

 - a. Counterman A only
 - b. Counterman B only
 - c. Both Counterman A and B
 - d. Neither one
9. What type of fluid should be used in the power steering system?
 - a. Universal power steering fluid
 - b. Automatic transmission fluid (ATF)
 - c. Special OEM power steering fluid
 - d. It varies by application
10. A "unitized" control arm:
 - a. Has no bushings
 - b. Has no joints
 - c. Includes the ball joint as part of the arm
 - d. Replaces the idler arm

ANSWER KEY

1c, 2b, 3c, 4a,
5d, 6a, 7d, 8b,
9d, 10c