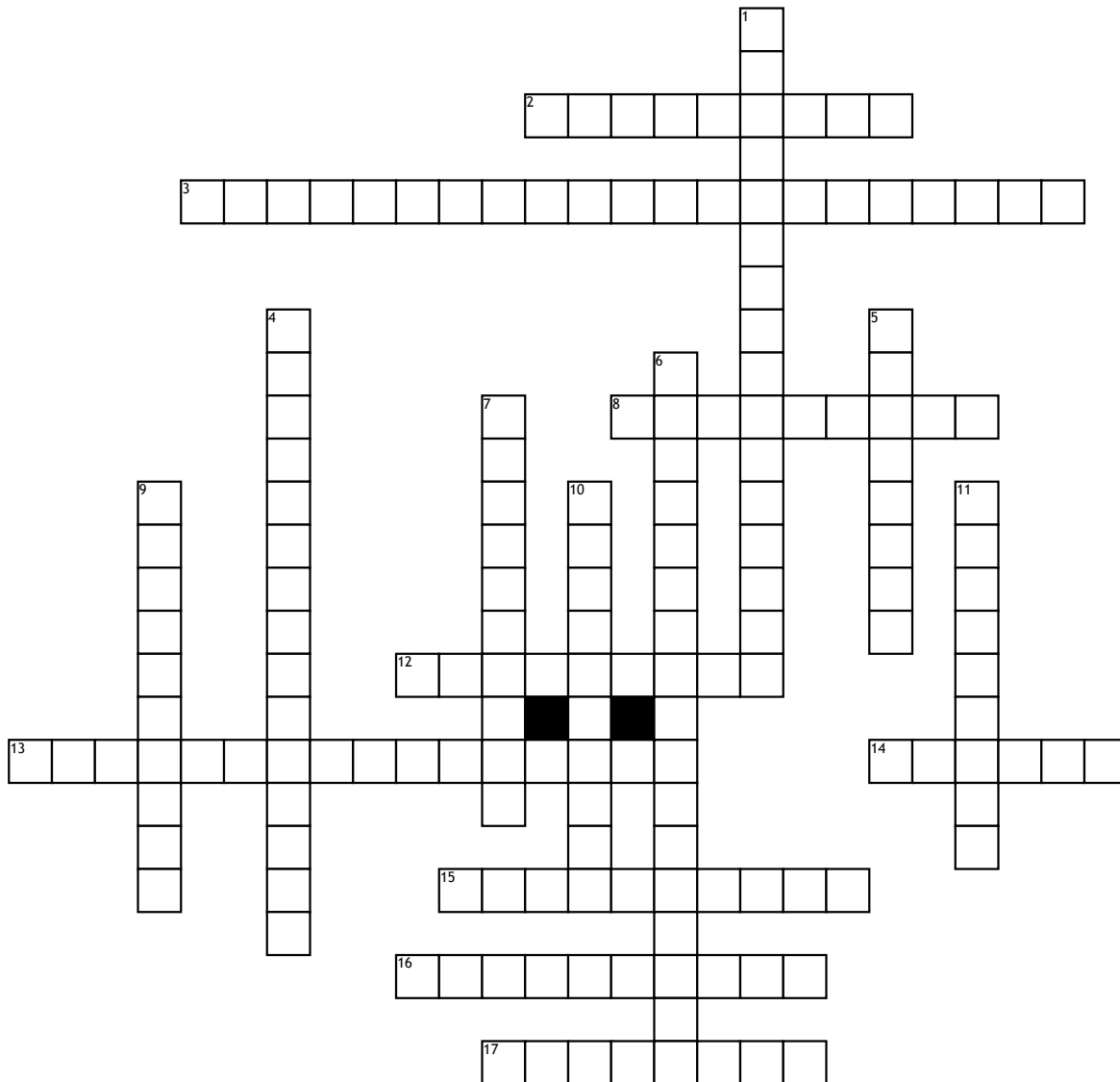


Suspension Systems Chapter 75



Across

2. a device used to dampen road noises
 3. a suspension system that allows each wheel on the same axle to move vertically (i.e. reacting to a bump on the road) independently of the others
 8. a suspension link intended to control wheel motion in the longitudinal (fore-aft) direction.
 12. similar in function to conventional oil-filled suspension shocks, however, instead of using hydraulic fluid and pressure to absorb the road shocks, they use air and air pressure
 13. a type of automotive suspension that controls the vertical movement of the wheels relative to the chassis or vehicle body with an onboard system

14. fourth derivative of the position vector with respect to time, or the rate of change of the jerk with respect to time.
 15. a hinged suspension link between the chassis and the suspension upright or hub that carries the wheel
 16. a simple form of spring commonly that uses arc-shaped length of spring steel
 17. When a car is decelerating due to braking there is a load transfer off the rear wheels and onto the front wheels

Down

1. It defines how a car handles, body integrity, and the overall feel of the car.
 4. a type of shock absorber that uses low pressure gas to help keep the oil in the shock piston from foaming

5. solid rear axle used on some front wheel drive vehicles
 6. a suspension link that provides lateral location of the axle
 7. a helical spring used to maintain a force between the vehicle and road surface
 9. metal shroud that keeps road dirt off of the shock absorber
 10. measurement taken from the rocker panel to the ground
 11. The action of the rear end of the vehicle to point downward during hard acceleration