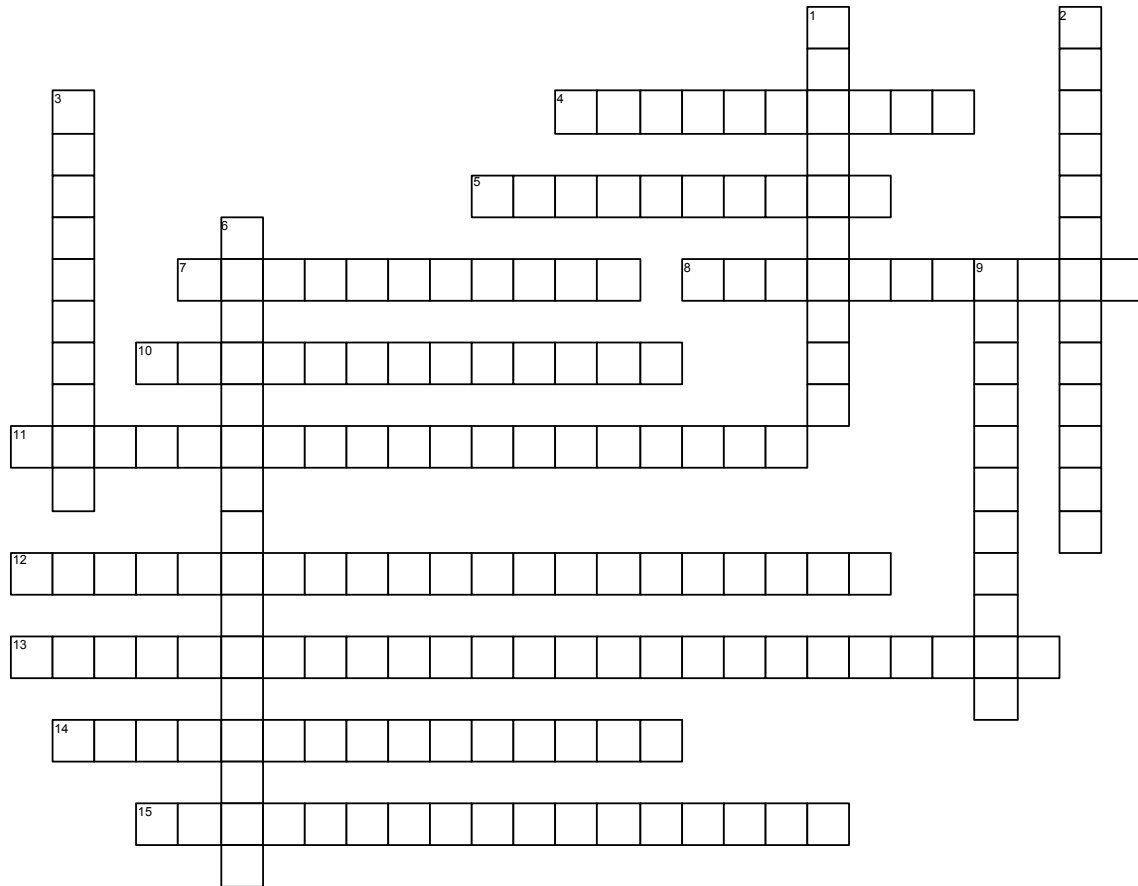


# Brakes and Antilock Braking Systems

## Chapter 36



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### ACROSS

- 4 \_\_\_\_\_ are used on the rear of many vehicles.
- 5 Another name for the service brakes are the \_\_\_\_\_.
- 7 The \_\_\_\_\_ is used on most vehicles to reduce the force the driver must exert on the brake pedal.
- 8 The brake pedal force is transferred to the hydraulic system, where the force is directed through pipes and hoses to the \_\_\_\_\_.
- 10 New vehicles have \_\_\_\_\_ on the stud when the vehicle is being assembled.
- 11 The \_\_\_\_\_ lights whenever a hydraulic system failure occurs.
- 12 The purpose of an \_\_\_\_\_ is to prevent the

- wheels from locking during braking, especially on low-friction surfaces such as wet, icy, or snowy roads.
- 13 Mechanical, electrical, and hydraulic components are used in the \_\_\_\_\_ to ensure that brakes are applied quickly and with balanced pressure for safe operation.
- 14 The \_\_\_\_\_ includes the master cylinder, brake lines and hoses, wheel cylinders and calipers.
- 15 ABS uses \_\_\_\_\_ at the wheels to measure the wheel speed.

### DOWN

- 1 The \_\_\_\_\_ force is transferred to the hydraulic system, where the force is directed through pipes and hoses to the wheel brakes.
- 2 \_\_\_\_\_ are the main driver-operated brakes of the vehicle.
- 3 \_\_\_\_\_ are used on the front of most vehicles built since the early 1970s and on the rear wheels of many vehicles.
- 6 Another name for the service brakes are the \_\_\_\_\_.
- 9 The driver starts the \_\_\_\_\_ operation of the braking system by pressing on the brake pedal or applying the parking brake.