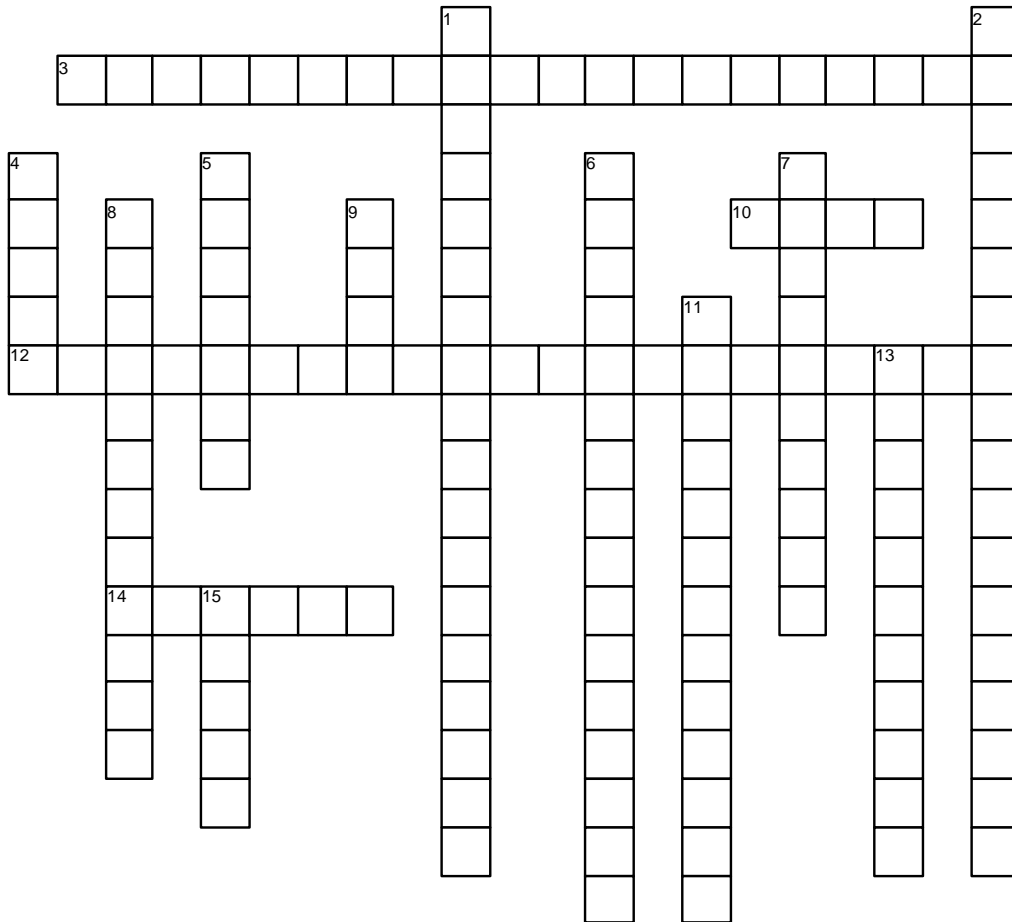


Regenerative Braking Systems

Chapter 20



<http://jameshalderman.com>

ACROSS

- 3** A _____ braking system is less complex because the base brakes are used along with energy recovery by the motors becoming generators.
- 10** ____ is the amount of matter in an object.
- 12** All series regenerative braking systems use an _____ system, which includes the hydraulic control unit that manages the brake cylinder pressures, as well as the front-rear axle brake balance.
- 14** All vehicles generate _____ to move the wheels to drive the vehicle down the road.

DOWN

- 1** Some systems use a _____ sensor as an input signal to the brake ECU.
- 2** In _____ brake systems, the amount of regeneration is proportional to the brake pedal position.
- 4** A _____ applied to move an object results in the equation: $F = ma$.
- 5** _____ is the resistance of an object to change its state of motion.
- 6** Another name for regeneration is _____.
- 7** Another name for friction brakes is _____.
- 8** _____ is the process where electricity becomes electrical energy, which is directed to and recharges the high-voltage battery.
- 9** When connected to _____ batteries that can charge and discharge very quickly, the package is complete.
- 11** A hybrid electric vehicle relains energy by converting the energy of a moving object, called _____, into electric energy.
- 13** The faster an object is _____, the more force that has to be applied.
- 15** A shortened name for regeneration is _____.