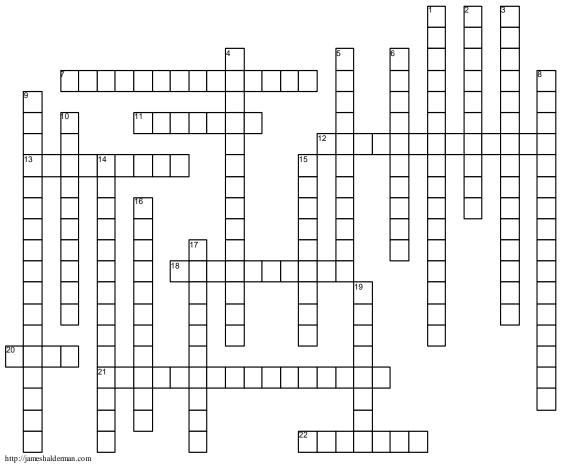
Disc Brakes

Chapter 13



ACROSS

7 ______ is not a problem with disc brakes because, unlike a brake drum, the disc brake rotor expands toward the brake linings as it heats up rather than away from them.

11 ______ is a problem only under severe braking conditions when hot gases and dust particles from the linings are trapped between the brake linings and rotor, where they act as lubricants.

12 _____ use high-temperature adhesive to glue the brake block directly to the shoe pad backing plate.

13 _____ is not a big problem with disc brakes because centrifugal force created

by the spinning rotor throws off most

moisture, and the brake pads positioned

only a few thousandths of an inch away

from the rotor continuously wipe it clean.

brakes become overheated.

anchor plate.

20 Instead of pins and bushings, sliding

calipers move on ____ cast and

machined into the caliper body and

___ can and does occur if the

- 21 Another name for mold-bonded linings is
- 22 A __- caliper differs from a standard caliper in the area of the square-cut O-ring.

DOWN

1 The bond lowers the of the pad, and the cushion layer dampens any vibration that may still 2 ____- linings are found on some disc brake pads. 3 The body of a_ not make direct metal-to-metal contact with the anchor plate. 4 Unlike a floating caliper, the body of a mounts in direct metalto-metal contact with the anchor plate. 5 The caliper is free to move within a limited range on an ___ solidly mounted to the vehicle suspension. 6 A large press is used to force the

ingredients together to form a _

___, which eventually becomes the

- brake lining.
- 8 Some automakers call the floating caliper a .
- 10 Most calipers have _____ clips or springs that hold the pads in the caliper under tension to help prevent vibration.
- 14 _____ take advantage of the oldest method of lining attachment still in
- 15 _____ is the amount of brake drum or rotor friction surface that moves past the brake linings every time the drum or rotor completes a rotation.
- 16 Brake pads and linings that use synthetic material such as aramid fibers instead of steel are usually referred to as
- 17 The _____ caliper has a body manufactured in two halves, and uses two, four, or six pistons to apply the brake pads
- 19 The lining of a disc brake is part of an assembly called the _____

