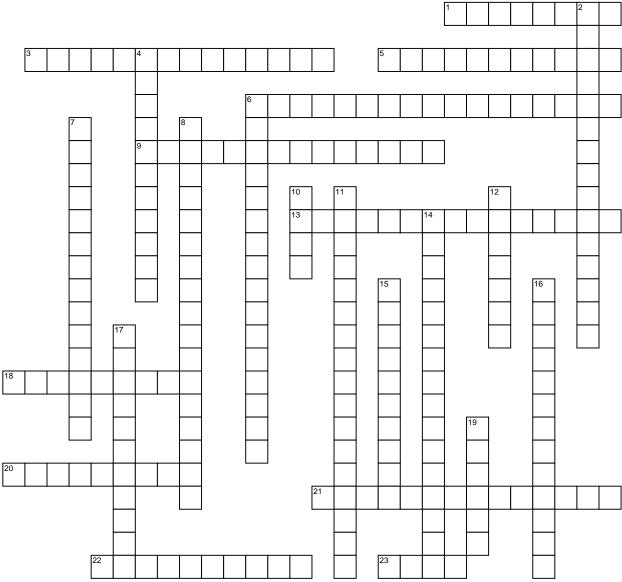


## **Disc Brakes**

## Chapter 12



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## ACROSS

1	The lining of a disc brake is part of an assembly
	called the
3	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.
5	The caliper is free to move within a limited range
	on an that is solidly mounted to the
	vehicle suspension.
6	Although not required by law, a growing number of
	vehicle manufacturers are fitting
	to their brakes for safety reasons.
9	Unlike a floating caliper, the body of a
	mounts in direct metal-to-metal contact
	with the anchor plate.
3	The body of a does not make
	direct metal-to-metal contact with the anchor plate.
8	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.
0	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.

- \_ take advantage of the oldest method of lining attachment still in use.
- 22 A large press is used to force the ingredients together to form a \_ \_\_, which eventually becomes the brake lining.
- 23 Instead of pins and bushings, sliding calipers move on \_\_\_\_ cast and machined into the caliper body and anchor plate.

## **DOWN**

- 2 Most calipers have \_ or springs that hold the pads in the caliper under tension to help prevent vibration. 4 Brake pads and linings that use synthetic material
- such as aramid fibers instead of steel are usually referred to as
- 6 Some automakers call the floating caliper a \_\_\_\_-
- \_ differs from a standard caliper in the area of the square-cut O-ring.

- 8 The has a body manufactured in two halves, and uses two, four, or six pistons to apply the brake pads.
- 10 Carbon fiber material is often called
- 11 \_\_\_\_- are found on some disc
- 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.
- 14 The bond lowers the \_ pad, and the cushion layer dampens any vibration that may still occur.
- 15 \_\_\_\_ can and does occur if the brakes become overheated.
- \_ use high-temperature adhesive to glue the brake block directly to the shoe pad backing plate.
- 17 Synthetic linings use \_ instead of metal as the base material.
- \_\_\_\_\_ is the Dupont brand name of aramid and a registered trademark of E.I. Dupont de Nemours and Company.