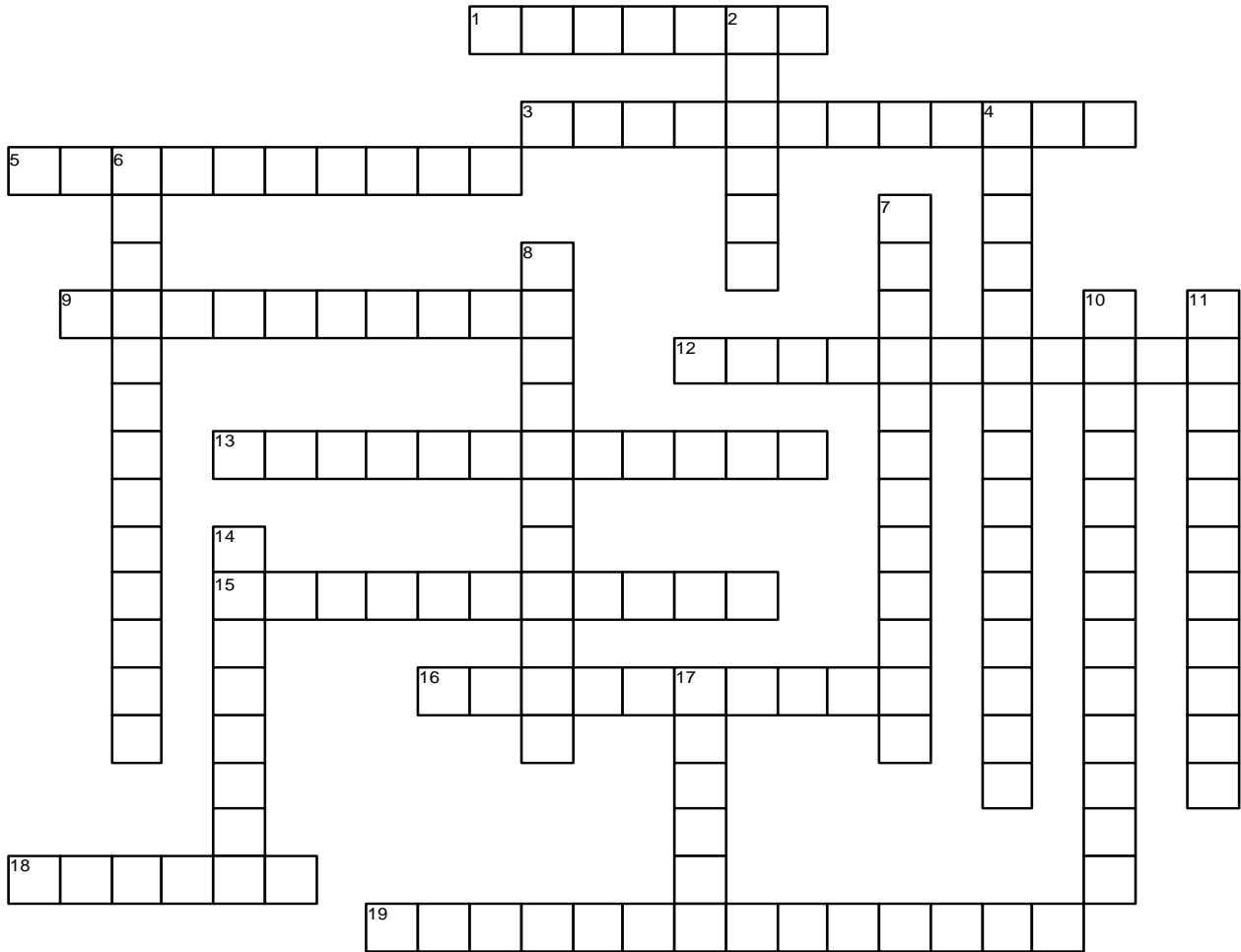


# Power Brake Unit Operation, Diagnosis, And Service

## Chapter 104



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### ACROSS

- 1 Whenever the vacuum brake booster or the master cylinder is replaced, the \_\_\_\_\_ length should be checked.
- 3 The difference in pressure between two areas is called a pressure \_\_\_\_\_.
- 5 \_\_\_\_\_ is a hydraulically operated power-assist unit built by Bendix.
- 9 The BAS function works with the \_\_\_\_\_ stability control (ESC) system to ensure maximum braking efficiency during evasive or emergency situations.
- 12 Some vehicles are equipped with a \_\_\_\_\_ system that applies the brakes with maximum force if the system detects that the driver is making a panic stop.
- 13 \_\_\_\_\_ brake assist is a motor-driven vacuum pump that can supplement engine vacuum to the vacuum brake booster.
- 15 Vacuum boosters use the principle of pressure differential to increase brake \_\_\_\_\_ force.
- 16 In a Hydro-Boost system, the fluid pressure from the power steering pump enters the unit and is directed by a \_\_\_\_\_.
- 18 The \_\_\_\_\_-diaphragm vacuum booster design increases the total area without increasing the physical diameter of

the booster.

- 19 Most vacuum-powered brake boosters get their vacuum supply from the engine \_\_\_\_\_.

### DOWN

- 2 All vacuum boosters use a \_\_\_\_\_ vacuum check valve.
- 4 The English measurement for vacuum is in \_\_\_\_\_.
- 6 \_\_\_\_\_ is another name for the tandem-diaphragm vacuum booster.
- 7 The typical vacuum booster has a \_\_\_\_\_ separated into two smaller chambers by a flexible diaphragm.
- 8 The \_\_\_\_\_ stores hydraulic fluid under pressure to provide a reserve in the event of a failure of the power steering system.
- 10 The metric measurement for vacuum is in \_\_\_\_\_ mercury.
- 11 \_\_\_\_\_ pressure varies with altitude, but is approximately 14.7 PSI at sea level.
- 14 Sometimes an engine \_\_\_\_\_ can destroy or blow the vacuum check valve out of the booster housing.
- 17 The term \_\_\_\_\_ is used to refer to any pressure lower than atmospheric pressure.