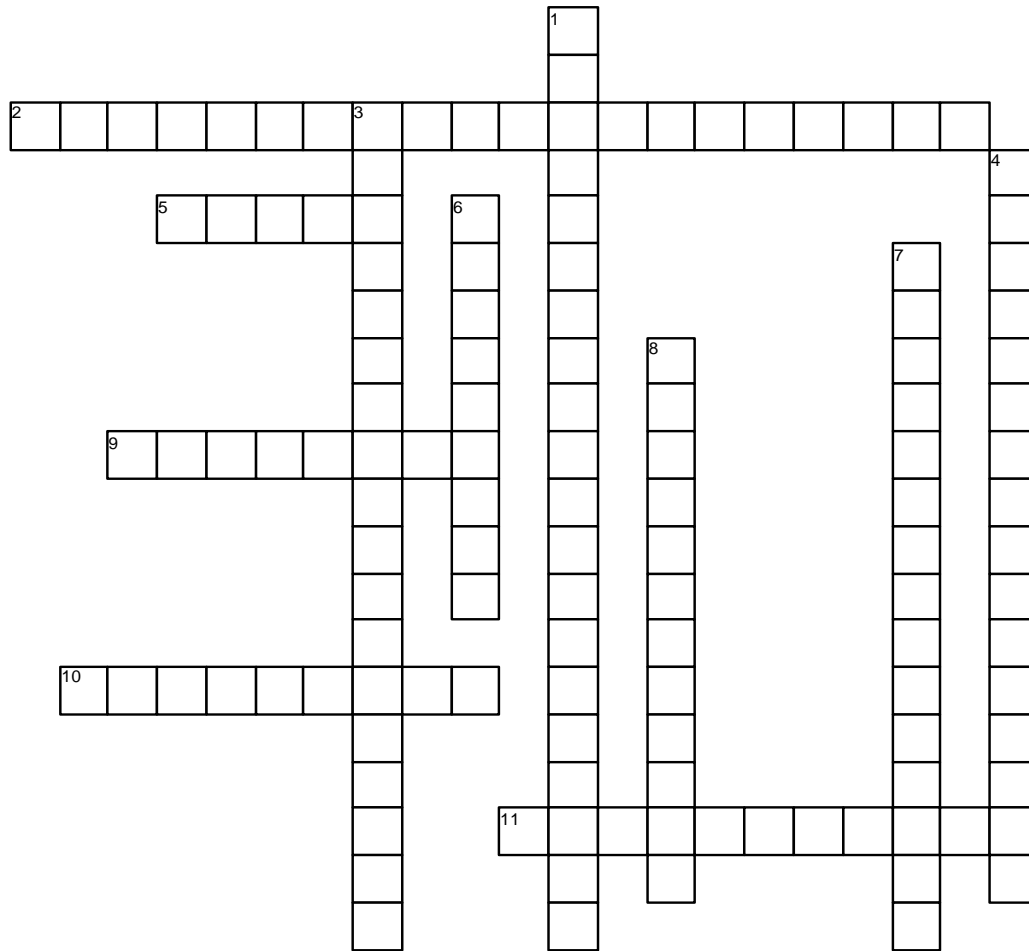


Turbocharger Systems

Chapter 9



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ACROSS

- 2 _____ is a valve controlled by the engine control computer; also called a wastegate control valve.
- 5 _____ is air that is pressurized to greater than atmospheric pressure.
- 9 _____ is a delay between acceleration and turbo boost is called turbo lag.
- 10 _____ is the solid residue that forms when engine oil is heated above the thermal breakdown temperature.
- 11 an _____ is a typical cooling device is called an air charge cooler, an intercooler, or charge air cooler.

DOWN

- 1 _____ is a measure of how well an engine breathes.
- 3 Using atmospheric pressure to push air into the combustion chamber.
- 4 a _____ turbocharger (VGT) is used on many diesel engines for boost control.
- 6 a _____ is a valve similar to a door that can open and close. It is a bypass valve at the exhaust inlet to the turbine, which allows all of the exhaust into the turbine, or it can route part of the exhaust past the turbine to the exhaust system.
- 7 _____ is a typical cooling device called an air charge cooler, an intercooler, or charge air cooler.
- 8 a _____ Consists of two chambers connected with a center housing. The two chambers contain a turbine wheel and an impeller (compressor) wheel connected by a shaft, which passes through the center housing.