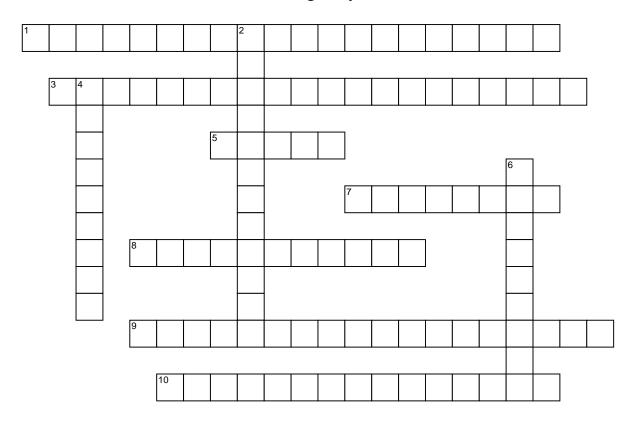


Chapter 9

Turbocharger Systems



ACROSS

1	is a valve controlled by the
	engine control computer; also called a
	wastegate control valve.
3	is a measure of how well an
	engine breathes.
5	is air that is pressurized to
	greater that atmospheric pressure.
7	is a delay between acceleration
	and turbo boost is called turbo lag.
8	an is a typical cooling device is
	called an air charge cooler, an intercooler,
	or charge air cooler.
9	Using atmospheric pressure to push air
	into the combustion chamber.
0	is a typical cooling device
	called an air charge cooler, an intercooler,
	or charge air cooler.

1

DOWN

2 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.
4 ______ is the solid residue that forms when engine oil is heated above the thermal breakdown temperature.
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.