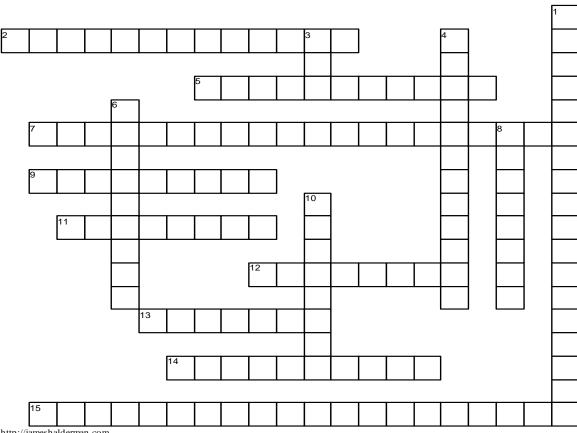
Oxygen Sensors

Chapter 19



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2	Automotive computer systems use a sensor in the
	exhaust system to measure the oxygen content of the
	exhaust, these sensors are called
5	Some vehicle manufacturers such as GM have the
	PCM apply 450 mV to the O2S signal wire, this voltage
	is called
7	is exposed to the exhaust
	stream.
9	If an oxygen sensor reads low as a result of a factor
	besides a lean mixture, it is often called a
	indication.
11	A oxygen sensor is made of zirconium
	dioxide, an electrically conductive material capable of
	generating a small voltage in the presence of oxygen.
12	The numbers are determined from the
	signals by the oxygen sensor.
13	The oxygen sensor does not produce a
	voltage but rather changes resistance due to the
	presence of oxygen in the exhaust.
14	The checking and adjusting of the PCM is called
	operation.
15	is exposed to outside air and

DOWN	
1	Another name for the signal electrode is the
3	The wrong type of sealer on a valve cover gasket
	gives off harmful silica fumes during the curing
	process.
4	The fast heating, called, helps
	improve fuel economy and reduces cold-start exhaust
	emissions.
6	When the O2S reads high as a result of other factors
	besides a rich mixture, it is often called a
	indication.
8	When the PCM alone is determining the amount of fuel
	needed, it is called operation.
10	oxygen sensors have been used since
	1992 on some Hondas.



is the signal electrode.