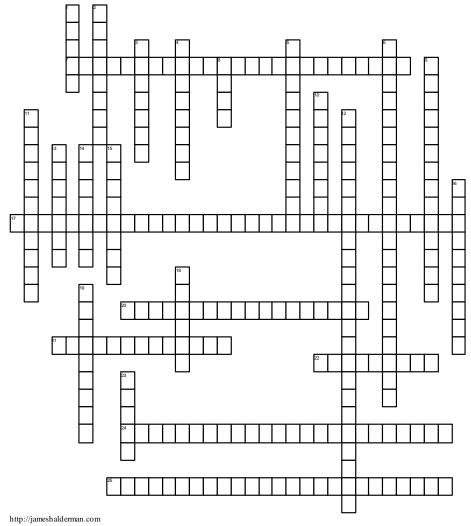
Automotive Background And Overview Chapter 1



ACROSS

- 7 All gasoline and diesel engines are called and were designed to compress an ignitable mixture. 17 The Monroney label is the sticker on the vehicle that lists the a unit located in the exhaust system usually close to the engine, which causes chemical changes in the exhaust gases. _____ is the engine design where the valves are placed in the cylinder head. 22 The air is filtered by a replaceable _____
- and is labeled "Check Engine" or "Service Engine Soon." 25 The_ _ is designed to prevent gasoline fumes and vapors from being released. DOWN 1 The on-board diagnostic system is currently in the second generation and is called ___-. 2 The design where the valves were located in the engine block is called_ design because the cylinder head simply covered the

combustion chamber and

24 The warning lamp is called the

included a hole for the spark 3 _____ is a design that combines the body with the structure of the frame. 4 Some systems use a _ _ to regulate the flow of gasses created in the crankcase of a running engine, which are routed back into the intake manifold. 5 Vehicles with a separate frame and body are usually called __-__ vehicles. 6 After the invention of electric, steam, and gasoline propulsion systems, people _, which are vehicles that moved under their own power. 8 The frame or ____ of the

	vehicle is used to provide the
	support for the suspension
	and steering components as
	well as the power train.
9	After the air is filtered, it
	passes through a throttle valve
	and then into the engine
	through an
0	After the coolant picks up the
	heat from the engine, it flows
	through a, which
	cools the coolant by releasing the heat into the air.
1	Unburned gasoline emissions
•	are called
	emissions.
2	The
_	system
	meters about 3% to 7% of the
	exhaust gases back into the
	intake where the gases reduce
	the peak combustion
	temperature and prevent the
	oxygen and nitrogen from the
	air from combining to form
	oxides of nitrogen.
3	An engine driven
	forces the oil under pressure
	through an oil filter, then to
	passages in the block and
	head called oil galleries, and
	then to all of the moving parts.
4	The is a mixture of
	antifreeze and water to
	provide corrosion and freezing
_	protection.
5	Electronic hand-held testers, called, are
	needed to access stored
	diagnostic trouble codes and
	view sensor and system data.
6	The temperature of the coolant
	is maintained by using a
	located in the
	coolant passage, which opens
	to allow coolant to flow to the
	radiator or closes until the
	coolant is hot enough to need
	cooling.
8	Most engine are equipped with
	an containing 3 to 7
	quarts of oil.
9	Coolant is circulated by a
	through passages
	in the cylinder block and head
	called water jackets.
23	construction usually
	consists of channel-shaped

steel beams welded and/or

fastened together.

