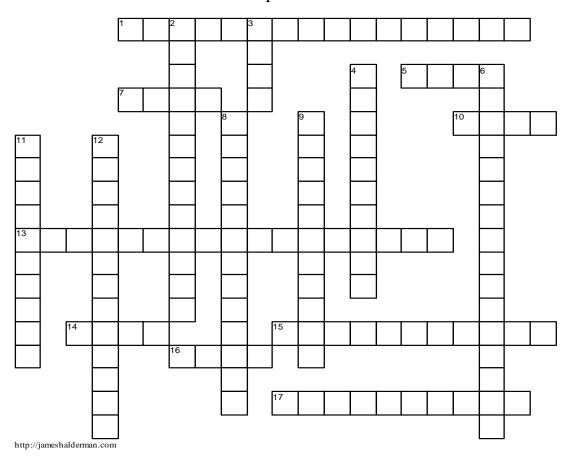
Electric Power Steering Systems

Chapter 15



ACROSS

- 1 The _______power steering module controls the power steering motor, which has the function of providing hydraulic power to the brake booster and steering gear.
- 5 _-___(abbrev) has sensors and the assist motor located inside the vehicle so they are not exposed to heat and outside elements as is the rack-mounted system.
- 7 The _____ (abbrev) and power steering motor are serviced as an assembly and are serviced separately from the steering column assembly.
- 10 A_-__ (abbrev) is not directly mounted on the column itself. This system has the assist motor connected to the pinion shaft of the rack-and-pinion steering gear.
- 13 The EPS is controlled by the EPS
 _____ unit (ECU),
 which calculates the amount of
 needed assist based on the input

from the	steering	toau	e sensor.
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- 14 A design that has the assist motor surrounding the rack is called a _system (abbreviated).
- 15 Several vehicle manufacturers offer a ______ feature that uses the electric power steering to steer the vehicle.
- **16** Another name for electric power steering systems is ____ (abbrev).
- 17 If the power steering system is exposed to excessive amounts of static steering conditions, the PSCM will go into a _____ mode to avoid thermal damage due to overheating of the power components.

DOWN

- 2 Many of today's vehicles use _____steering systems.
- **3** Another name for a rack mounted system is _-__ system (abbrev).
- 4 Most electric power steering
 trouble codes will be
 "C" codes for chassis-related faults

or	"U"	codes for data	
	mmi	inication faulta	

6	The PSCM uses the		
	sensor to determine the		
	steering system on-center position.		

8	The PSCIVI uses the
	torque sensor as a main
	input for determining steering
	direction and the amount of assist
	needed

9	The	_ system has th
	acciet motor attac	shod to the rack

- 11 The _______position sensor outputs and analog signal, referenced to 5 volts, that increases or decreases with brake pedal depression.
- 12 An advantage to EPS systems is that they allow the vehicle manufactures to save ____ and complexity because there is no need for all of the hydraulic lines and engine-driven

