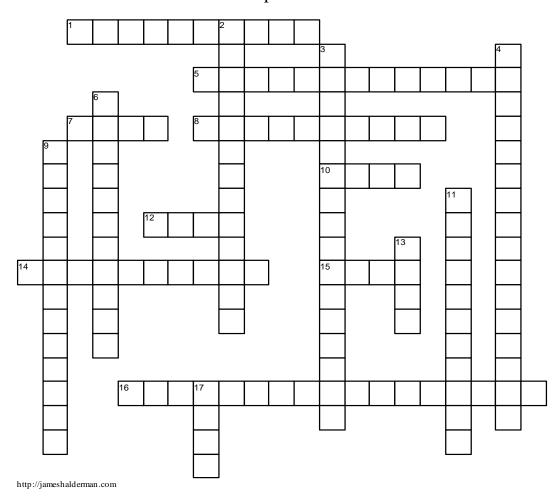
Electric Power Steering Systems

Chapter 118



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1	Most electric power steeringt	rouble codes will
	be "C" codes for chassis-related faults or	"U" codes for data
	communication faults.	
_	An adventoge to EDC evetoms is that they	مام نجام د مطابع دام

- 5 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 pump.
- 7 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.
- 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.
- 10 Another name for a rack mounted system is _-__ system (abbrev).
- 12 Another name for electric power steering systems is _____ (abbrev).
- **14** The ______position sensor outputs and analog signal, referenced to 5 volts, that increases or decreases with brake pedal depression.
- 15 A design that has the assist motor surrounding the rack is called a _-___ system (abbreviated).
- 16 The EPS is controlled by the EPS _____

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unit (ECU), which calculates the amount of needed assist based on the input from the steering toque sensor.

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2	The PSCM uses the torque sensor as a		
	main input for determining steering direction and the amoun		
	of assist needed.		
3	3 Thepower steering module controls		
	the power steering motor, which has the function of		
	providing hydraulic power to the brake booster and steering		
	gear.		
4	The PSCM uses the sensor to		
	determine the steering system on-center position.		
6	Several vehicle manufacturers offer a feature		
	that uses the electric power steering to steer the vehicle.		
9	Many of today's vehicles use steering		
	systems.		
11	Thesystem has the assist motor attached to		
	the rack.		
13	3 The (abbrev) and power steering motor are serviced		
	as an assembly and are serviced separately from the		
	steering column assembly.		
17	(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 existem		