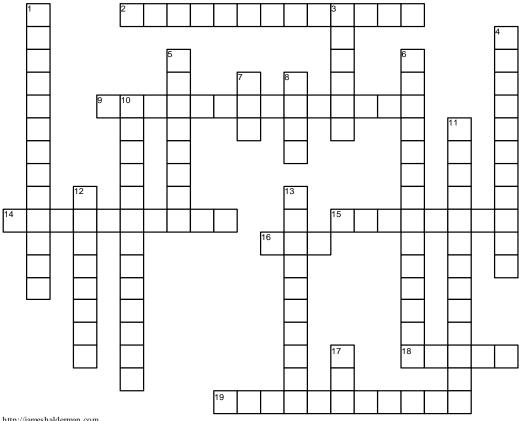
## Hydraulic Power Steering Systems Chapter 117



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## **ACROSS**

response.

2	The pump draws fluid from the reservoir,	4
	pressurizes it, and delivers it to the power steering	
	system.	5
9	One of the major components of a	6
	steering system is the road sensing suspension (RSS)	
	control module.	
14	is one of GMs four different variable-effort	
	steering systems.	7
15	In an power steering system, the control valve	
	and a power piston which applies force to the pitman	8
	arm are incorporated into the steering gear construction.	
16	A transmits an electronic signal to the PCM when	
. •	the pressure in the system is high enough to increase	10
	the load on the engine.	
18	is a push or pull acting on an object and is usually	11
. •	measured in pounds or Newtons.	
19	A valve installs in the same bore as the	12
. •	hose fitting.	
		13
DO	WN	
1	Power-assisted steering boosts the	17
•	mechanical steering gear operation so the driver can	
	turn the steering wheel with less effort for the same	

3	A reservoir is a separate assembly from the
	pump and provides fluid to it through a suction hose.
4	The power steering pump is usually fitted
	to a chrome-plated shaft with a press fit.
5	is force applied to a specific area.
6	To handle the excess pressure, a pressure-relief
	passage runs from a point near the pressure hose fitting
	to the spring end of the modulator valve. Inside the
	passage is avalve.
7	systems are designed to provide variable power-
	assisted steering.
8	The and the power steering motor are serviced as
	an assembly and are serviced separately from the
	steering column assembly.
10	The correct fluid is critical to the
	operation and service life of the power steering system.
11	A valve is a two-piece assembly that
	operates by rotating an inner valve within an outer valve
12	An reserv oir is part of the pump, and the
	pump itself operates submerged in power steering fluid.
13	states that pressure on a confined fluid is
	transmitted equally in all directions and acts with equal
	force on equal areas.
17	The system provides a wide range of power-
	assisted steering based on the vehicle's operating
	conditions