

Name \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1) What type of motor is used in electric power steering systems?

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2) What sensors are needed for EPS systems?

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3) What are the types of electric power steering systems?

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4) What are the advantages of using an electric power steering system?

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5) How does an electro-hydraulic power steering work?

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## Answer Key

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1) Most electric power steering units use a DC electric motor. Some operate from 42 volts while others operate from 12 volts.

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2) The EPS input sensors include:

- Steering shaft torque sensor
- Steering wheel position sensor

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3) There are two basic types of EPS systems:

- Rack mounted
- Column mounted

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4) The advantages of electric power steering include:

- Improved fuel economy
- Increase in usable power
- Allows the vehicle manufacturer to save vehicle weight and complexity because there is no need for all of the hydraulic lines and engine-driven pump.
- Improved cold weather starting because of reduced engine load without the drag of a power steering pump
- Simple two-wire connection in many cases, making vehicle assembly and vehicle service easier

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5) This system uses an electric motor to drive a hydraulic pump. The electrohydraulic power steering (EHPS) module controls the power steering motor, which has the function of providing hydraulic power to the brake booster and the steering gear.

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