

Automotive Technology 7th Edition
Chapter 118: Electric Power Steering Systems
Matching Quiz

Name: _____ Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|---|--|-----------|
| 1. Electric Power Steering (EPS) | A. A system that uses EPS, ultrasonic sensors, and other inputs to steer a vehicle into a parking space. | 1. _____ |
| 2. Rack-Mounted EPS (R-EPS) | B. Detects the movement and torque the driver applies to the torsion bar. | 2. _____ |
| 3. Column-Mounted EPS (C-EPS) | C. An EPS system where the assist motor is attached to the steering rack. | 3. _____ |
| 4. Steering Shaft Torque Sensor | D. A system that uses an electric motor to power a hydraulic pump. | 4. _____ |
| 5. Steering Position Sensor (SPS) | E. Used by the control module to determine the steering system's on-center position. | 5. _____ |
| 6. Power Steering Control Module (PSCM) | F. A state entered by the control module to prevent overheating by limiting current to the power steering motor. | 6. _____ |
| 7. Protection Mode | G. An EPS system where the assist motor and sensors are located on the steering column inside the vehicle. | 7. _____ |
| 8. Self-Parking System | H. A system that uses an electric motor instead of hydraulic components to provide power assist. | 8. _____ |
| 9. Electrohydraulic Power Steering (EHPS) | I. Uses inputs like torque and vehicle speed to calculate the necessary amount of steering assist. | 9. _____ |
| 10. EPS Diagnostic Trouble Codes (DTCs) | J. Usually begin with a "C" for chassis-related faults or a "U" for communication faults. | 10. _____ |

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Answer Key

Answer Key:

1. H
2. C
3. G
4. B
5. E
6. I
7. F
8. A
9. D
10. J