Electric and Hybrid Electric Vehicles, 1st Edition

Quiz	15A
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NAME

1. If the steering column of an electric power steering system vehicle is replaced, what may have to	1.	
be recalibrated by the electric power steering control module?		
A) Lock-to-lock distance		
B) Vehicle toe-in		
C) Torque sensor zero		
D) Turn signal cancel trigger		
2. Two technicians are discussing electric power steering (EPS) systems. Technician A says that	2.	
some systems operate on 12 volts. Technician B says that some systems operate on 42 volts, such		
as on some hybrid electric vehicles. Which technician is correct?		
A) Technician A only		
B) Technician B only		
C) Both technicians A and B		
D) Neither technician A nor B		
3. The steering shaft torque sensor uses as inputs to the EPS control module.	3.	
A) calibrated springs		
B) vacuum pulses		
C) viscous resistances		
D) voltage signals		
4. What type of motor is used in most electric power steering (EPS) systems?	4.	
A) AC brush type		
B) DC brushless		
C) Stepper		
D) None of the above		
5. While troubleshooting an electric power steering (EPS) system concern, a scan tool displays DTC	5.	
U0073. What part of the EPS system has detected a fault?		
A) The motor circuit		
B) Data communication		
C) Torque sensor		
D) Steering angle sensor		
6. The steering torque sensor in an electric power steering system senses	6.	
A) steering wheel torque		
B) steering wheel direction		
C) Both a and b		
D) Neither a nor b		
7. Which of these must be serviced together, as a unit?	7.	
A) Steering wheel and air bag		
B) Steering torque and position sensors		
C) Steering warning lamp and PSCM		
D) All of these can be serviced individually.		

8. The advantages of electric power steering compared to hydraulic power steering include	8
A) less weight	
B) improved fuel economy	
C) increased usable engine power	
D) All of the above	
9. What diagnostic equipment is usually needed to diagnose faults or relearn the electric power steering system?	9
A) Special electronic diagnostic equipment designed to test each specific system	
B) Factory or factory-level scan tool	
C) A breakout box	
D) A 12-volt test light	
10. What type of diagnostic trouble codes will be set when an EPS system fault is detected?	10.
A) Type A code	
B) Type B code	
C) Type C code	

D) Type D code

Answer Key Testname: EV1_15A

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