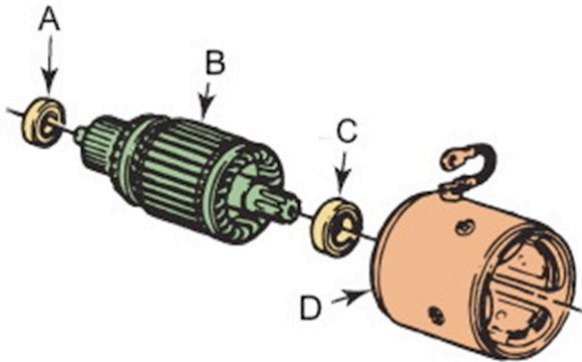


Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) After installing the starter, the technician should perform which of the following? 1) \_\_\_\_\_
- A) Attach the negative battery cable
  - B) Check the starter for proper operation
  - C) Perform a starter voltage drop test before starting the engine
  - D) Both A and B

- 2) Which of these components is the armature? 2) \_\_\_\_\_



- A) A
- B) B
- C) C
- D) D

- 3) Bench testing of a starter should be done \_\_\_\_\_. 3) \_\_\_\_\_
- A) after reassembling an old starter
  - B) before installing a new starter
  - C) after removing the old starter
  - D) both A and B

- 4) What component or circuit can keep the engine from cranking? 4) \_\_\_\_\_
- A) Antitheft
  - B) Solenoid
  - C) Ignition switch
  - D) All of the above

- 5) A cranking system voltage drop test is being done. Technician A says that the higher the voltage drop, the lower the resistance in the circuit. Technician B says that a high voltage drop in the cranking circuit wiring can cause slow engine cranking. Who is right? 5) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

- 6) Which of these can cause a starter grinding noise? 6) \_\_\_\_\_  
A) An over-tightened flywheel  
B) Neutral safety switch  
C) Defective starter drive  
D) Seized engine
- 7) Technician A says that the cranking circuit should be tested for proper amperage draw. 7) \_\_\_\_\_  
Technician B says that an open in the control circuit will not prevent starter motor operation.  
Who is right?  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 8) All of these can cause a starter not to rotate, EXCEPT \_\_\_\_\_. 8) \_\_\_\_\_  
A) defective starter drive  
B) shorted field coils  
C) defective armature  
D) seized engine crankshaft
- 9) Which one of these would NOT be a diagnostic step when diagnosing a "no crank" customer concern? 9) \_\_\_\_\_  
A) Check the condition of the engine oil.  
B) Check the operation of the theft deterrent system.  
C) Check the battery with a load test.  
D) Test for proper operation of the starter enable relay.
- 10) What should be done first before removing the starter motor from the vehicle? 10) \_\_\_\_\_  
A) Remove battery  
B) Remove starter solenoid  
C) Disconnect starter relay  
D) Disconnect negative battery cable