

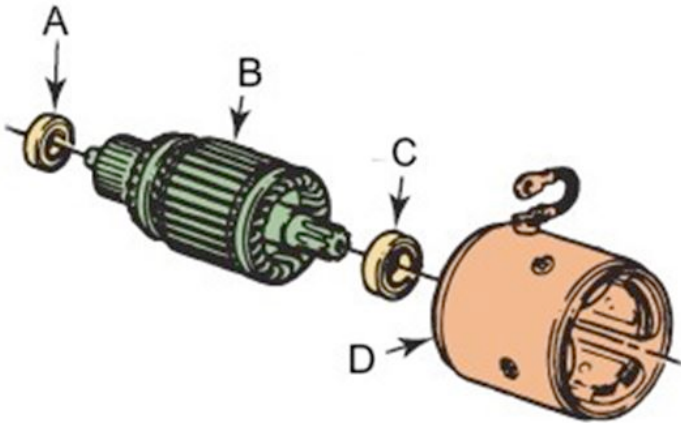
Name \_\_\_\_\_

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

- 1) Bench testing of a starter should be done \_\_\_\_\_. 1) \_\_\_\_\_
  - A) After reassembling an old starter
  - B) Before installing a new starter
  - C) After removing the old starter
  - D) Both A and B
  
- 2) A technician connects one lead of a digital voltmeter to the positive (+) terminal of the battery and the other meter lead to the battery terminal (B) of the starter solenoid and then cranks the engine. During cranking, the voltmeter displays a reading of 878 mV. Technician A says that this reading indicates that the positive battery cable has too high resistance. Technician B says that this reading indicates that the starter is defective. Which technician is correct? 2) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 3) What is the first step for removing a starter? 3) \_\_\_\_\_
  - A) Hoist the vehicle
  - B) Disconnect the battery positive cable
  - C) Disconnect the battery negative cable
  - D) Remove the battery cable from the starter
  
- 4) Slow cranking by the starter can be caused by all of these, EXCEPT \_\_\_\_\_. 4) \_\_\_\_\_
  - A) A low or discharged battery
  - B) Corroded or dirty battery cables
  - C) Engine mechanical problems
  - D) Open neutral safety switch
  
- 5) A voltage drop test on the starter control circuit is used to test which of these starter components? 5) \_\_\_\_\_
  - A) Wiring and connections
  - B) Field coils
  - C) Commutator
  - D) Starter solenoid and field coil
  
- 6) Two technicians are discussing what could be the cause of slow cranking and excessive current draw. Technician A says that an engine mechanical fault could be the cause. Technician B says that the starter motor could be binding or defective. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

7) Which of these components is the armature?

7) \_\_\_\_\_



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

8) With the armature removed from the starter motor, the field coils should be tested for opens and grounds using which of these tools?

8) \_\_\_\_\_

- A) Powered test light
- B) Ohmmeter
- C) Ammeter
- D) Either A or B

9) If the clearance between the starter pinion and the engine flywheel is too great, \_\_\_\_\_.

9) \_\_\_\_\_

- A) The starter will produce a high pitched whine during cranking
- B) The starter will produce a high pitched whine after the engine starts
- C) The starter drive will not rotate at all
- D) The solenoid will not engage the starter drive

10) Technician A says that a discharged battery (lower than normal battery voltage) can cause solenoid clicking. Technician B says that a discharged battery or dirty (corroded) battery cables can cause solenoid clicking. Which technician is correct?

10) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

## Answer Key

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1) D

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2) A

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3) C

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4) D

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5) A

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6) C

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7) B

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8) D

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9) A

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10) C

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