

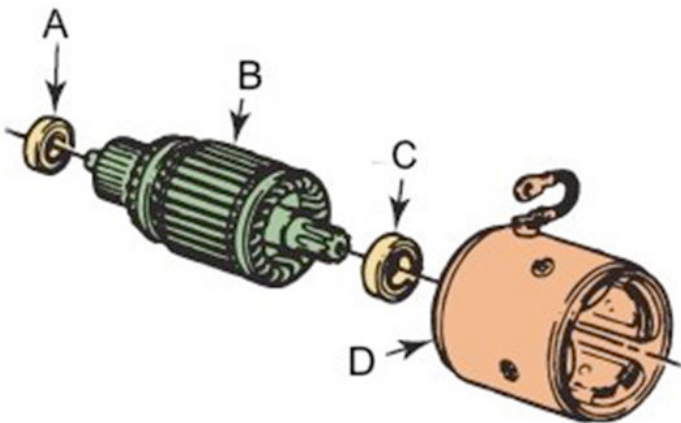
Name _____

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

1) All of these can cause a starter not to rotate, EXCEPT _____. 1) _____
A) Defective starter drive
B) Shorted field coils
C) Defective armature
D) Seized engine crankshaft

2) A V-6 is being checked for starter amperage draw. The Initial surge current was about 210 amperes and about 160 amperes during cranking. Technician A says the starter is defective and should be replaced because the current flow exceeds 200 amperes. Technician B says this is normal current draw for a starter motor on a V-6 engine. Which technician is correct? 2) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

3) Which of these components is the armature? 3) _____



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

4) Bench testing of a starter should be done _____. 4) _____
A) After reassembling an old starter
B) Before installing a new starter
C) After removing the old starter
D) Both A and B

- 5) If the starter "whines" when engaged, which of these is a possible cause? 5) _____
- A) Worn or defective starter drive
 - B) Defective solenoid
 - C) Open pull-in winding
 - D) Worn leather armature brake
- 6) 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? 6) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 7) Which of these tools is most likely to be used to determine the starter circuit voltage drop test? 7) _____
- A) Megohmmeter
 - B) Voltmeter
 - C) Ohmmeter
 - D) Ammeter
- 8) A voltage drop test on the starter control circuit is used to test which of these starter components? 8) _____
- A) Wiring and connections
 - B) Field coils
 - C) Commutator
 - D) Starter solenoid and field coil
- 9) With the armature removed from the starter motor, the field coils should be tested for opens and grounds using which of these tools? 9) _____
- A) Powered test light
 - B) Ohmmeter
 - C) Ammeter
 - D) Either A or B
- 10) A starting system voltage drop test is being done. Technician A says the higher the voltage drop, the lower the resistance in the circuit. Technician B says a high-voltage drop in the cranking circuit wiring can cause slow engine cranking. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

Testname: AEE6_21B

1) A

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2) B

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3) B

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4) D

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5) A

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6) A

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7) B

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8) A

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9) D

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10) B

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