

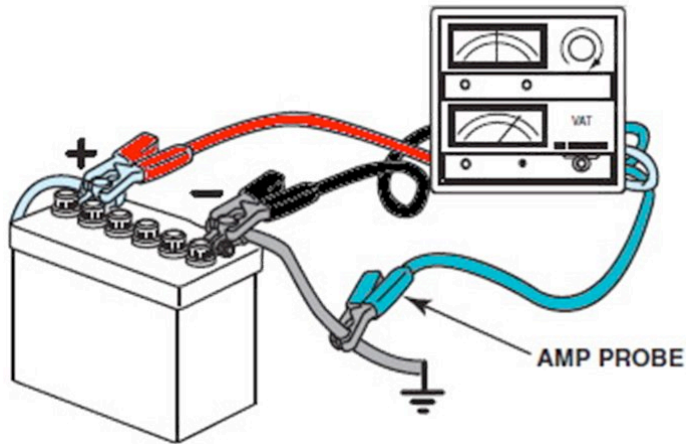
Name \_\_\_\_\_

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

- 1) 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? 1) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians A and B  
D) Neither technician A nor B
- 2) Which of these can cause a starter grinding noise? 2) \_\_\_\_\_  
A) Loose flywheel  
B) Neutral safety switch  
C) Defective starter drive  
D) Seized engine
- 3) Technician A says that proper starter operation depends on the battery being at a 95% charge and battery cables being of the correct size (gauge) and having no more than 0.8-volt drop. Technician B says that voltage-drop testing includes cranking the engine, measuring the drop in voltage from the battery to the starter, and measuring the drop in voltage from the negative terminal of the battery to the engine block. Which technician is correct? 3) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 4) A growler is used to test what starter component? 4) \_\_\_\_\_  
A) Field coils  
B) Armature  
C) Commutator  
D) Solenoid

5) What test is being performed in this illustration?

5) \_\_\_\_\_



- A) Starter amperage draw test
- B) Battery load test
- C) Ground side voltage drop test
- D) Positive side voltage drop test

6) What component or circuit can keep the engine from cranking?

6) \_\_\_\_\_

- A) Antitheft
- B) Solenoid
- C) Ignition switch
- D) Any of the above

7) 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?

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

- A) Technician A only
- B) Technician B only
- C) Both technicians A and B
- D) Neither technician A nor B

8) A vehicle equipped with a V-8 engine does not crank fast enough to start. Technician A says that the battery could be discharged or defective. Technician B says that the negative cable could be loose at the battery. Which technician is correct?

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

- A) Technician A only
- B) Technician B only
- C) Both technicians A and B
- D) Neither technician A nor B

9) All of these can cause a starter not to rotate, EXCEPT \_\_\_\_\_.

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

- A) Defective starter drive
- B) Shorted field coils
- C) Defective armature
- D) Seized engine crankshaft

- 10) A V-6 is being tested for starter amperage draw. The initial surge current was about 210 amperes and about 160 amperes during cranking. Technician A says that the starter is defective and should be replaced because the current flow exceeds 200 amperes. Technician B says that this is normal current draw for a starter motor for a V-6 engine. Which technician is correct? 10) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A n or B

## Answer Key

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- 1) C  
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- 2) C  
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- 3) B  
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- 4) B  
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- 5) A  
Page Ref: 266
- 6) D  
Page Ref: 263
- 7) C  
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- 8) C  
Page Ref: 263
- 9) A  
Page Ref: 271
- 10) B  
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