

Name _____

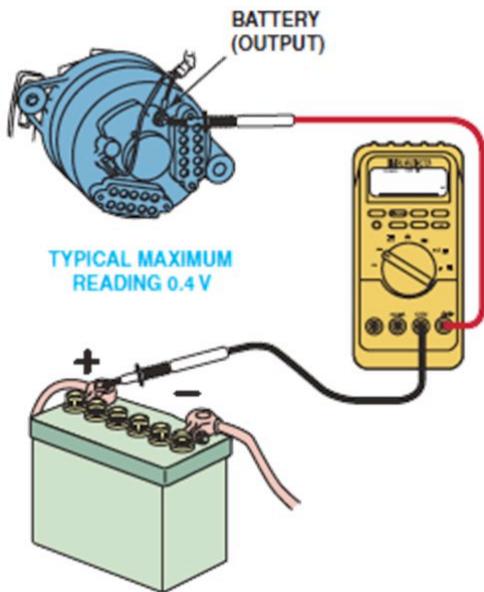
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) When testing an alternator rotor, if an ohmmeter shows zero ohms with one meter lead attached to the slip rings and the other meter lead touching the rotor shaft, the rotor is _____.
A) Okay (normal)
B) defective (shorted-to-ground)
C) defective (shorted-to-copper)
D) defective (rotor windings are open) 1) _____

- 2) When the rotor is removed from the rear housing the brushes will fall out.
A) True
B) False 2) _____

- 3) Technician A says when testing for maximum alternator output, the battery must be loaded to force the alternator to produce its maximum output. Technician B says after disassembly, all alternator internal components should be tested using an ammeter. Which technician is correct?
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician 3) _____

- 4) What test is being performed in this illustration (engine running)? 4) _____



- A) Alternator output voltage drop test
- B) Charging current test
- C) Alternator ground circuit test
- D) Battery voltage test

5) Technician A says that a loose drive belt could cause overcharging. Technician B says that undersized wiring between the alternator and the battery could cause undercharging. Which technician is correct? 5) _____

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

6) An alternator diode is being tested using a DMM (digital multimeter) set to the diode check position. A good diode will read _____ if the leads are connected one way across the diode and _____ if the leads are reversed. 6) _____

- A) 300 ohms; 300 ohms
- B) 0.475 ohms ; 0.475 ohms
- C) OL; OL
- D) 0.551 ohms; OL

7) Identify this alternator component. 7) _____



- A) Rectifier bridge
- B) Diode trio
- C) Stator linkage
- D) Alternator end housing

8) An alternator could test as producing lower-than-normal output, yet be okay, if the _____. 8) _____

- A) battery is weak or defective
- B) engine speed is not high enough during testing
- C) drive belt is loose or slipping
- D) Any of the above

9) The maximum allowable alternating current (AC) that is being sent to the battery from the alternator is _____. 9) _____

- A) 0.04 A
- B) 1 to 3 A
- C) 3 to 4 A
- D) 10% of the rated output of the AC Generator

10) Before disassembling an alternator _____ the case.

- A) paint
- B) mark
- C) acid dip
- D) wash

10) _____

Answer Key

Testname: AEEP8_20B

1) B

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2) A

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3) A

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4) A

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5) B

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6) D

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7) A

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8) D

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9) D

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10) B

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