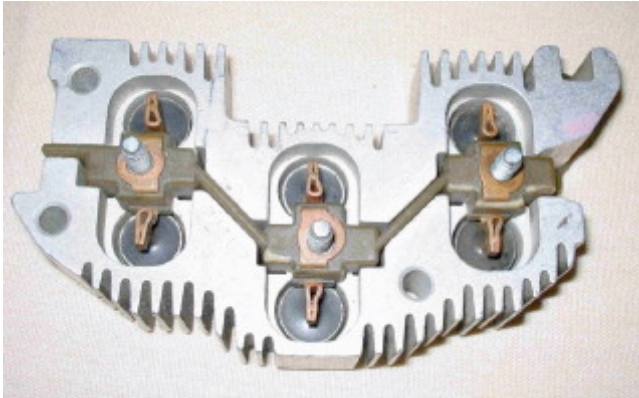


Name _____

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

1) Identify this alternator component.

1) _____



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

2) An acceptable charging circuit voltage on a 12 volt system is _____.

2) _____

- A) 13.5 to 15 volts
- B) 12.6 to 15.6 volts
- C) 12 to 14 volts
- D) 14.9 to 16.1 volts

3) Technician A says that charging system testing requires that the battery be at least 75% charged. Technician B says that a digital multimeter can not be used to test charging system voltage. Who is right?

3) _____

- A) A only
- B) B only
- C) Both A and B
- D) Neither A nor B

4) An alternator has zero output. Technician A says that the alternator field circuit may have an open circuit. Technician B says that the fusible link may be open in the alternator to battery wire. Who is right?

4) _____

- A) A only
- B) B only
- C) Both A and B
- D) Neither A nor B

5) Technician A says that the voltage drop between the output terminal of the alternator and the positive terminal of the battery should be less than 0.4 volt. Technician B says that the voltage drop between the case of the alternator and the negative terminal of the battery should be less than 0.2 volt. Which technician is correct?

5) _____

- A) A only
- B) B only
- C) Both A and B
- D) Neither A nor B

6) An alternator is being tested using an oscilloscope. The following pattern is observed. What does the pattern indicate?

6) _____



- A) A normal pattern
- B) Loose output terminal
- C) Shorted diode
- D) Open diode

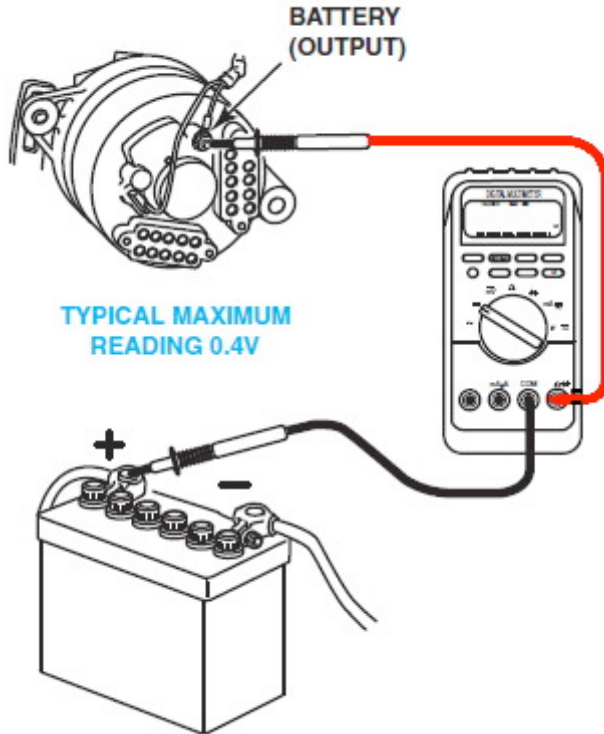
7) Technician A says that by full fielding the alternator, you are bypassing the voltage regulator. Technician B says that full fielding can possibly damage electronic circuits, so it is no longer a recommended test. Who is right?

7) _____

- A) A only
- B) B only
- C) Both A and B
- D) Neither A nor B

8) What test is being performed in this illustration (engine running)?

8) _____



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

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

9) _____

- 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

10) 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. Who is right?

10) _____

- A) A only
- B) B only
- C) Both A and B
- D) Neither A nor B

Answer Key

Testname: AAEE_12B

- 1) A
Page Ref: 151
- 2) A
Page Ref: 141
- 3) A
Page Ref: 141
- 4) C
Page Ref: 142
- 5) C
Page Ref: 146
- 6) C
Page Ref: 144
- 7) C
Page Ref: 142
- 8) A
Page Ref: 146
- 9) D
Page Ref: 141-142
- 10) B
Page Ref: 142, 148