

Automotive Engines 10th

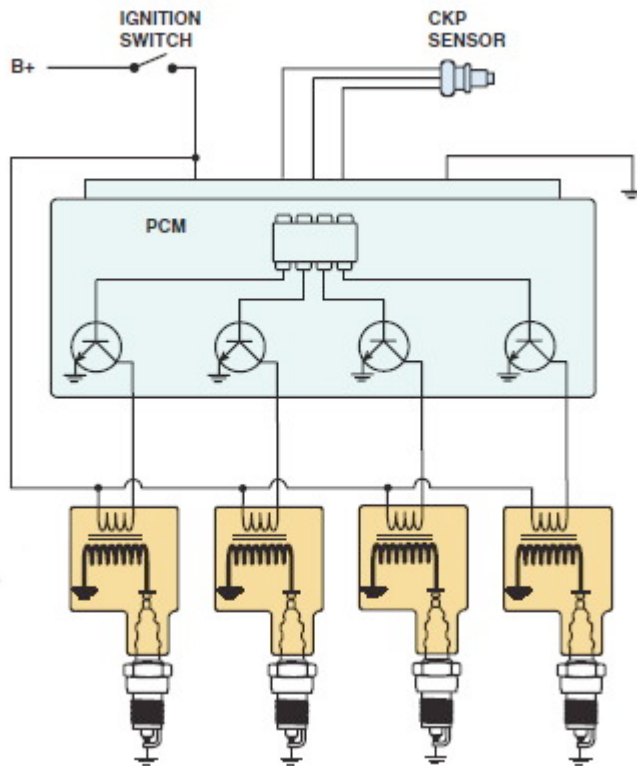
Quiz 17B

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

1. The ignition module has direct control over the firing of the coil(s) of an ignition system. Which component(s) triggers (controls) the module? 1. _____
A) Pickup coil
B) Computer
C) Crankshaft sensor
D) All of the above

2. Two technicians are discussing coil-on-plug ignition systems. Technician A says that they can be called coil-near-plug or coil-by-plug ignition systems. Technician B says that some can use ion sensing. Which technician is correct? 2. _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

3. Identify the type of ignition system shown in this diagram. 3. _____

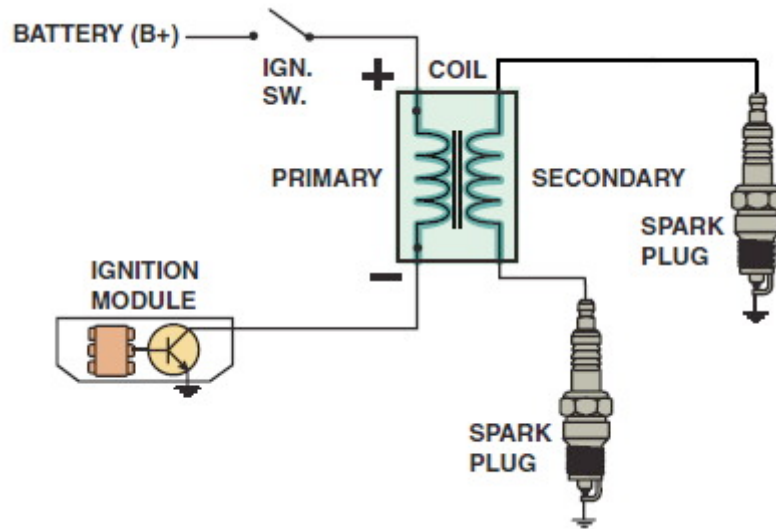


- A) Capacitor discharge system
- B) Waste spark ignition system
- C) Coil-on-plug ignition system
- D) Distributor ignition system

4. Technician A says that a thorough visual inspection should be performed on all ignition components when diagnosing an engine performance problem. Technician B says platinum spark plugs can be regapped after use in an engine. Which technician is correct? 4. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
5. A no-start condition is being described on an engine equipped with a waste spark ignition system. Technician A says that a bad CKP (crankshaft position) sensor could be the cause. Technician B says that an open spark plug wire could be the cause. Which technician is correct? 5. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
6. A compression-sensing ignition system uses a _____ type of ignition 6. _____
- A) distributor
 - B) coil-on-plug
 - C) waste spark
 - D) All of the above
7. Coil polarity is determined by the _____. 7. _____
- A) direction of rotation of the coil windings
 - B) turn ratio
 - C) direction of laminations
 - D) saturation direction
8. When setting the ignition timing on a coil-on-plug ignition system, the technician must first _____. 8. _____
- A) put a chalk mark on the timing pointer
 - B) loosen the distributor lock plate
 - C) loosen the crankshaft position sensor bolts
 - D) None of these; the timing cannot be adjusted

9. Identify the type of ignition system shown in this diagram.

9. _____



- A) Capacitor discharge system
- B) Waste spark ignition system
- C) Coil-on-plug ignition system
- D) Distributor ignition system

10. The pulse generator _____.

10. _____

- A) fires the spark plug directly
- B) signals the electronic control unit (module)
- C) signals the computer that fires the spark plug directly
- D) is used as a tachometer reference signal by the computer and has no other function

Answer Key

Testname: ENGINES 10 17B

1. D
Page Ref: 219
2. C
Page Ref: 223
3. C
Page Ref: 224
4. A
Page Ref: 229; 232
5. A
Page Ref: 227
6. C
Page Ref: del
7. A
Page Ref: del
8. D
Page Ref: 235
9. B
Page Ref: 217
10. B
Page Ref: 219