

Sample Questions

Automotive Service Technician



1. If a fuse blows again after it has been replaced, what is the most likely cause:
 A Current or "amps" through circuit too high.
 B Resistance in the circuit is too high.
 C The ground point has become disconnected.
 D Open circuit in component.
2. A sport utility vehicle has high steering effort. Technician A says this could be caused by a sheared shift tube. Technician B says the steering column assembly is misaligned. Who is right?
 A A only
 B B only
 C Neither A nor B
 D Both A and B
3. If a vehicle tends to have excessive bounce when dips are encountered on a road then the most likely problem is:
 A the tires are badly worn.
 B excessive positive caster.
 C worn or weak shock absorbers.
 D the stabilizer bar needs to be replaced.
4. When removing an engine from a vehicle equipped with an automatic transmission, the torque converter does which of the following?
 A Must be flushed
 B Must be drained
 C Stays with transmission
 D Stays with transmission
5. Technician A says whenever working on the steering column, consult the on-line service information for the recommended airbag disabling procedure. Technician B says the u-joint or flexible coupling must be removed before the steering wheel can be removed. Who is right?
 A Neither A nor B
 B B only
 C A only
 D Both A and B
6. Which of the following does not produce a digital signal?
 A Optical sensors.
 B AC generators.
 C Hall-Effect switches.
 D Microswitches

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7. An engine detonation (knock) sensor uses a:

- (A) voltage divider pickup.
- (B) potentiometer
- (C) piezoresistive crystal.
- (D) thermistor

8. The head of a valve in an engine is the part that:

- (A) seals against the valve seat.
- (B) makes contact with the valve opening mechanism.
- (C) transitions from the stem to the head.
- (D) part of the valve that is exposed to the combustion chamber.

9. Fuel lines connected to the tank of a vehicle are made of:

- (A) steel
- (B) flexible synthetic rubber
- (C) aluminum
- (D) vacuum hose.

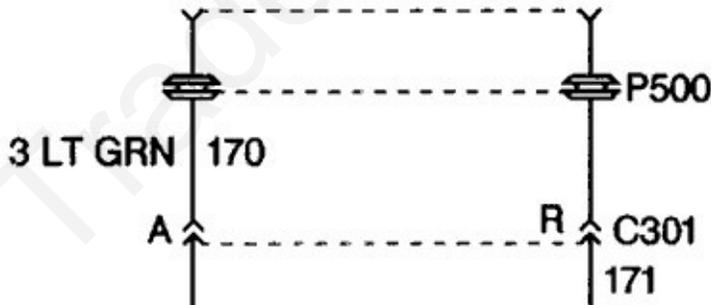
10. The TPS (Throttle Position Sensor) input is used to do all of the following, except

- (A) indicate the rate of acceleration.
- (B) alter the spark advance curve.
- (C) determine idle speed RPM.
- (D) indicate the rate of acceleration.

11. If a tapered boss is used to fasten a wheel it must be installed with the taper:

- (A) towards the wheel.
- (B) none of these.
- (C) away from the wheel.

12.

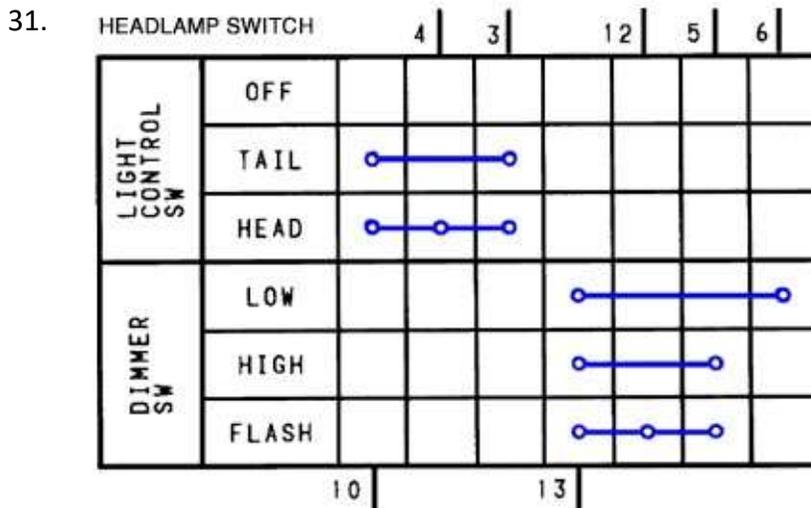


In the GM diagram above the "C301" represents:

- (A) connector number 301
- (B) circuit number 301.
- (C) wire circumference (diameter/size).
- (D) circuit breaker number 301.

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When this light control switch is turned to the "HEAD" position, a circuit is completed between:

- (A) Pin 10 and pin 3 only. (B) Pin 10 , pin 4, and pin 3 only.
- (C) Pin 12, pin 13, pin 5, and pin 4 only. (D) Pin 4 and pin 3 only.
32. A bipolar transistor circuit is operated so that
- (A) a small change in collector current controls a large change in emitter current. (B) a small change in collector current controls a large change in base current.
- (C) a small change in base current controls a large change in collector current. (D) a small change in emitter current controls a large change in collector current.
33. When looking for specific service information, what vehicle information is needed to locate the information?
- (A) Vehicle Build Date (B) Model year
- (C) Make, model and year (D) Vehicle VIN
34. Which of the following must be replaced during the service of a hydraulically controlled clutch?
- (A) Clutch fluid (B) Clutch linkage
- (C) Input shaft (D) Pilot bearing

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35. The sum of voltage drops in a series circuit equals the:

- (A) shunt circuit voltage.
- (B) source voltage.
- (C) voltage across the largest load.
- (D) voltage across the smallest load.

36.



For the electrical symbol illustrated above to represent "0" as its output, the inputs must be:

- (A) both inputs "0".
- (B) the top input "0", the bottom input "1".
- (C) one input "1" the other "0".
- (D) both inputs "1".

37. The hand operated service valve (stem type) on an air conditioner system has _____ operating conditions.

- (A) 5
- (B) 3
- (C) 2
- (D) 4

38. The fuel filter in a throttle body injection system is located on the:

- (A) return line back to the tank.
- (B) main supply line from the tank.
- (C) tank fill pipe.
- (D) inside of the canister.