

North Montco Technical Career Center

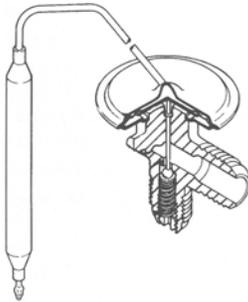
ASE Practice Test 7  
Heating and Air Conditioning Systems

Name: \_\_\_\_\_

AM-1: \_\_\_\_\_ AM-2: \_\_\_\_\_ PM: \_\_\_\_\_

Date: \_\_\_\_\_

1. In an A/C system, the main purpose of the part shown is to control:
- (A) amount of refrigerant entering evaporator.
  - (B) pressure of evaporator.
  - (C) amount of refrigerant leaving compressor.
  - (D) pressure of condenser.



2. If high side pressure in an A/C system is above specs, all of the following could cause the problem except:
- (A) an overcharge of refrigerant.
  - (B) restricted airflow across the condenser.
  - (C) engine overheating.
  - (D) a broken compressor reed valve.
3. Technician A says moisture found in an A/C system will react with refrigerant to form an acid that can corrode the parts in the system. Technician B says moisture found in an A/C system can freeze in the expansion valve and stop the system from cooling. Who is right?
- (A) A only. (B) B only. (C) Both A and B. (D) Neither A nor B.
4. A customer complains of a growling or rumbling noise at the A/C compressor. It occurs when the system is off and the engine is running. Technician A says the cause could be a bad compressor reed valve. Technician B says the cause could be a bad compressor clutch bearing. Who is right? (A) A only. (B) B only. (C) Both A and B. (D) Neither A nor B.

5. Inadequate A/C system operation is most likely to be caused by:
- (A) pressure differential valve sticking.
  - (B) ambient cutoff switch sticking closed.
  - (C) inadequate refrigerant charge.
  - (D) slipping compressor clutch.
6. A faulty expansion valve will cause:
- (A) low low-side readings and low high-side readings.
  - (B) low low-side readings and high high-side readings.
  - (C) high low-side readings and low high-side readings.
  - (D) high low-side readings and high high-side readings.

7. The refrigerant in the receiver/drier is a:
- (A) low pressure vapor.
  - (B) high pressure vapor.
  - (C) low pressure liquid.
  - (D) high pressure liquid.
8. An expansion tube A/C system normally has the orifice tube located in the:
- (A) inlet to evaporator.
  - (B) outlet of evaporator.
  - (C) inlet to condenser.
  - (D) outlet of condenser.
9. Refrigerant oil must be added to an R-134a system. Technician A says that mineral oil should be used. Technician B says polyalkylene glycol oil should be used. Who is right?
- (A) A only. (B) B only. (C) Both A and B. (D) Neither A nor B.
10. A vehicle's heater is not working properly. When checking the heater hoses, it is discovered that one hose is hot and the other is cold. Technician A says this may be caused by a clogged heater core. Technician B says the heater flow valve may be stuck in the closed position. Who is right?
- (A) A only. (B) B only. (C) Both A and B. (D) Neither A nor B.