

Automotive Heating and Air Conditioning, 9th Edition

Quiz 4B

NAME _____

1. Increasing the number of slots in the clutch armature helps to _____.
A) increase holding power
B) cool the hub
C) reduce bearing vibration
D) eliminate stray magnetic fields
1. _____

2. The clutch plate must be removed to _____.
A) get access to the compressor shaft seal
B) remove and replace the compressor
C) change the compressor oil
D) change the compressor belt
2. _____

3. Technician A says that it is important to position the retaining ring correctly when replacing clutch parts on a compressor. Technician B says that the air gap may be adjusted with thick spacers. Which technician is correct?
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B
3. _____

4. A stretch-type AC compressor belt is removed using _____.
A) a special tool
B) a knife (cut it)
C) by removing the compressor
D) by removing the tensioner
4. _____

5. The pressure relief valve on a 134a A/C system will open at about _____ PSI.
A) 300
B) 400
C) 500 to 600
D) 175 to 300
5. _____

6. What is the purpose of the clutch on an A/C compressor?
A) Helps to drive the water pump
B) Allows the compressor to be turned on and off
C) Helps to charge the battery using the magnetic field
D) Creates electrical current
6. _____

7. Which of the following is NOT a major component of most compressors?
A) Piston and rings
B) Reed valves
C) Clutch
D) Fins and tubes
7. _____

8. A compressor belt tensioner is bouncing rapidly with the engine running. What should the technician do? 8. _____
- A) Nothing, this is normal
 - B) Remove the tensioner and lubricate the dampener
 - C) Replace the tensioner
 - D) Tighten the tensioner center bolt
9. Two technicians are discussing variable displacement piston compressors. Technician A says that the wobble plate is moved to the high-angle position for maximum output when the cooling load is high. Technician B says that the wobble-plate angle is controlled by the pressure in the crankcase of the compressor. Which technician is correct? 9. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
10. The basic designs of AC compressors include _____, _____, and _____. 10. _____
- A) piston, vane, and scroll
 - B) radial, piston, and vane
 - C) balanced, piston, and scroll
 - D) fixed scroll, moveable scroll, and piston

Answer Key

Testname: AHAC9_4B

1. A
Page Ref: 40
2. A
Page Ref: 46
3. A
Page Ref: 44
4. B
Page Ref: 47
5. C
Page Ref: 42
6. B
Page Ref: 39
7. D
Page Ref: 35
8. C
Page Ref: 48
9. C
Page Ref: 37
10. A
Page Ref: 34