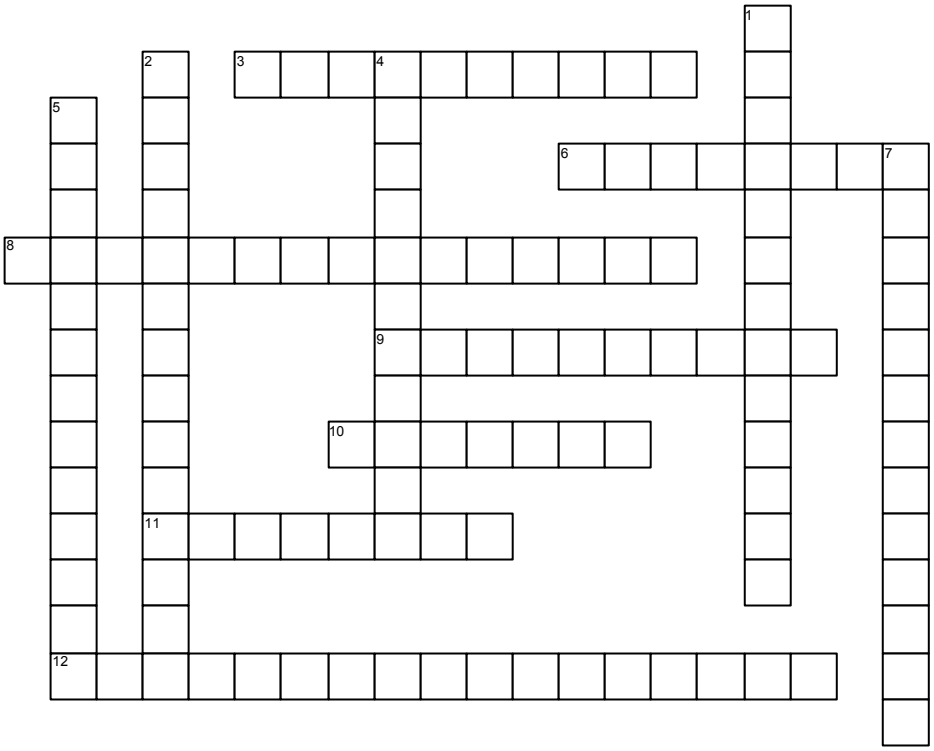
Air-Conditioning Compressors and Service

Chapter 5



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ACROSS

3 A piston compressor moves the pistons up and down in a cylinder to produce pumping action and controls the refrigerant flow with two sets of _____ _____.

6 _____ are installed in the discharge or suction line of some systems.

8 The upward stroke, or _____ _____, of the piston generates pressure to force the refrigerant through the discharge reed into the discharge chamber and on to the condenser.

9 The _____ _____ is attached to the compressor shaft.

10 Recent compressor designs use a ___ ____ made from Teflon that rides against a perfectly smooth portion of the driveshaft.

11 The carbon-material sealing member is spring loaded so that its smooth face makes tight contact with the ____ ____.

12 _____ _____ require rather complex machining to achieve constant sealing between the fixed and movable scrolls.

DOWN

1 Many compressors use a rotating ____ _____ attached to the shaft and a stationary seal seat attached to the front of the compressor housing.

2 ____ _____ has vanes that contact the rotor housing at each end, and they slide to make a seal at each end as the rotor turns.

4 Many recent vehicles use a clutchless _____ _____, electronic-controlled, variable displacement compressor.

5 _____ _____ are available from aftermarket sources for installation in the liquid line between the condenser and the OT or TXV and are designed to filter the refrigerant to stop debris from plugging the expansion device.

7 The downward or _____ _____ of the piston causes the refrigerant to flow from the compressor suction cavity to push the suction reed open and fill the cylinder.