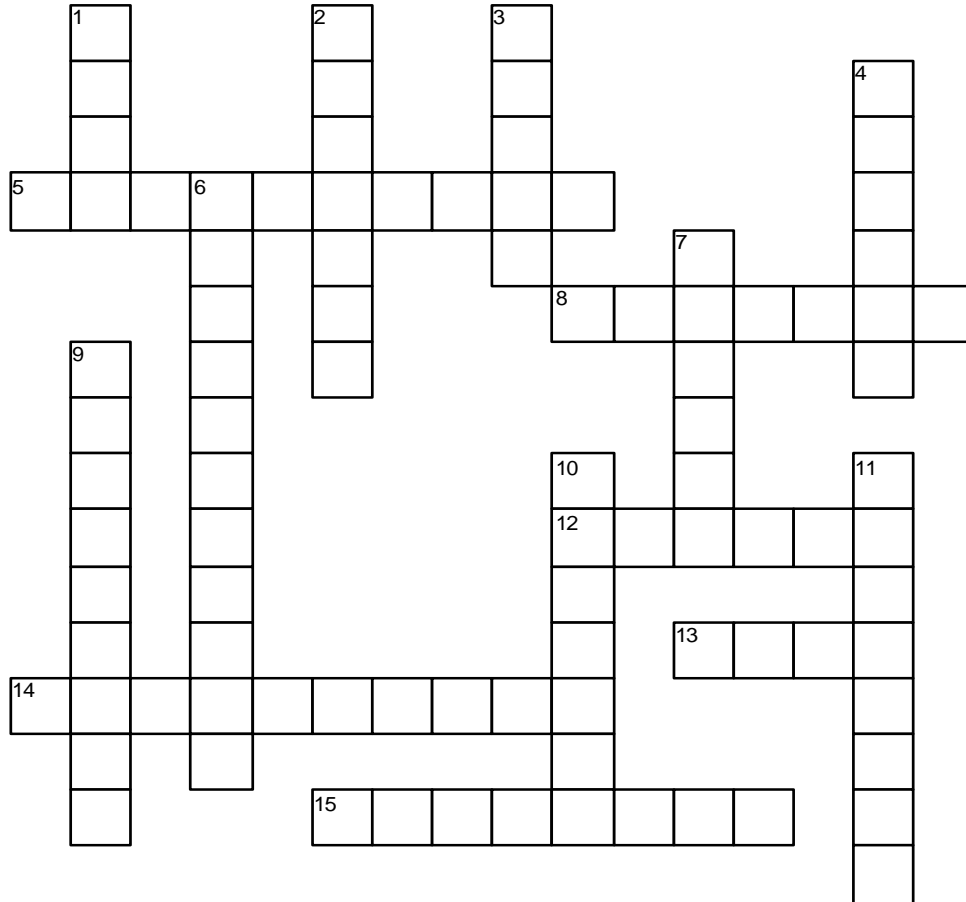


Air-Conditioning Compressors and Service

Chapter 61



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ACROSS

- 5** 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 _____.
- 8** stroke
- 12** _____ filters 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.
- 13** Many compressors use a rotating _____ cartridge attached to the shaft and a stationary seal seat attached to the front of the compressor housing.
- 14** The _____ is attached to the compressor shaft. The drive plate is also called a clutch pulley, and the pulley is also called a rotor.
- 15** _____ are usually a simple baffled cylinder and are used to dampen the pumping noise of the compressor.

DOWN

- 1** _____ have vanes that contact the rotor housing at each end, and they slide to make a seal at each end as the rotor turns.
- 2** A _____ scroll is mounted over an eccentric bushing and counterweight on the crankshaft.
- 3** A _____ scroll is attached to the compressor housing.
- 4** Most older automotive compressors used a crankshaft, similar to a small gasoline engine, and a reciprocating-piston type called a _____ compressor.
- 6** Many recent vehicles use a clutchless _____, electronic-controlled, variable displacement compressor.
- 7** compressor
- 9** An upward stroke, or _____ stroke, of the piston generates pressure to force the refrigerant through the discharge reed into the discharge chamber and on to the condenser.
- 10** Recent compressor designs use a lip _____. The lip of the seal is made from Teflon and rides against a perfectly smooth portion of the driveshaft.
- 11** Many compressors use a rotating seal cartridge attached to the shaft and a stationary _____ attached to the front of the compressor housing.