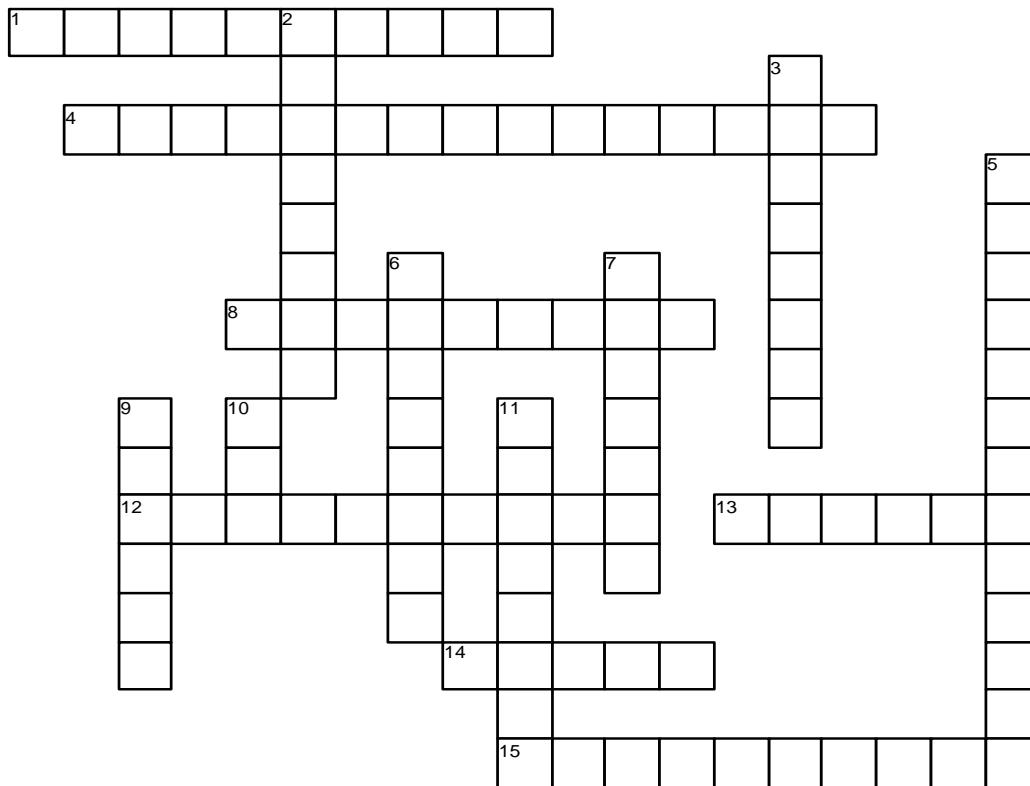


Refrigerant Recovery, Recycling, and Recharging

Chapter 65



<http://jameshalderman.com>

ACROSS

- 1 Most refrigerant recovery units are made as part of the recovery, recycling, and _____ (RRR) machine and contain two service hoses (a low and high side) that are connected to the system service ports. For R-134a systems, confirm that the service connector knurled knob is turned fully counterclockwise.
- 4 Any refrigerant that contains _____ gases (NCG), usually air, or with 2% or greater of another material (foreign refrigerant) is considered contaminated.
- 8 Refrigerant that has been sent out to an EPA-certified reclamation facility where it has been processed and certified as if it were new refrigerant is called _____ refrigerant.
- 12 Cross contamination is almost impossible to detect without the use of an electronic refrigerant _____.
- 13 Vacuum pumps are rated by both cubic feet per minute (cfm) and _____ ratings.
- 14 Vacuum pumps are rated by both cubic feet per minute (cfm) and micron ratings.
- 15 _____ means that a vacuum will be applied to the system to remove the air and to vaporize any moisture that may be in the system.

DOWN

- 2 Refrigerant that has been processed at a service facility (shop or dealership) by using recycling equipment that is SAE certified is called _____ refrigerant.
- 3 With the system running, caution should be exercised if charging liquid is put into it to avoid _____ the compressor, which is allowing liquid refrigerant to enter a running compressor which can cause severe damage.
- 5 Cross _____ is when an unknown refrigerant is recovered and can cause the entire supply of refrigerant to become contaminated.
- 6 _____ is using a liquid or a gas to clean the inside passages of an air-conditioning system.
- 7 To evaporate any trapped moisture in the system, a vacuum of at least 29 inches of _____ (inch Hg) is needed.
- 9 The _____ seal is part of a fitting that holds the ends of two refrigerant lines or hoses together inside a connector.
- 10 Whenever working around refrigerant or chemicals such as dyes, always wear personal protective equipment (______).
- 11 _____ in an R-134a system mixes and reacts with the refrigerant and oil in the system.