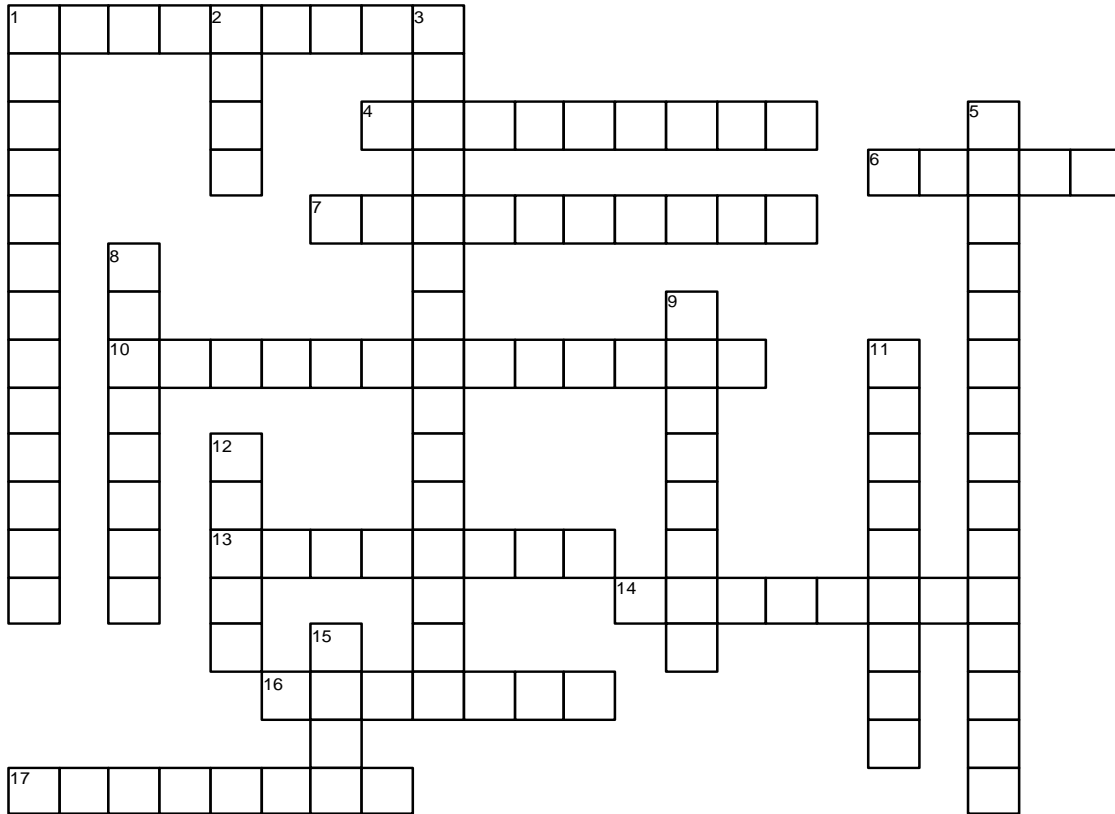


Automatic Air-Conditioning and Heat Pump Systems

Chapter 63



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ACROSS

- 1 _____ temperature control (ATC) System is also called automatic climate control system or automatic air-conditioning system.
- 4 The _____ air temperature (DAT) sensor is used to measure the temperature of the air leaving the dash vents.
- 6 Temperature/_____ to adjust air temperature (often just called the _____ door or temperature door).
- 7 The _____ temperature (EVT) sensor is used to measure the temperature of the air leaving the evaporator.
- 10 The _____ temperature (ECT) sensor is a thermistor and measures the temperature of the engine coolant and is usually located near the engine thermostat.
- 13 A few vehicles use a _____ humidity (RH) sensor to determine the level of in-vehicle humidity. High RH increases the cooling load.
- 14 Most automotive thermistors are of the _____ temperature coefficient (NTC) type; the resistance changes in an inverse or negative relationship with temperature.
- 16 The _____ sensor (also called a solar sensor) is normally mounted on top of the instrument panel and is used to measure radiant heat load that might cause an increase of the in-vehicle temperature.

- 17 A _____-position actuator is capable of positioning a valve in any position.

DOWN

- 1 The system that controls the air flow to the passenger compartment is called the _____ system or air distribution system.
- 2 Air flow through ducts are controlled by one or more _____ doors controlled by the function lever or buttons.
- 3 Automatic temperature control (ATC) System is also called automatic _____ system or automatic air-conditioning system.
- 5 _____/blend to adjust air temperature (often just called the blend door or _____ door).
- 8 A _____ transducer can be used in the low-and/or high-pressure refrigerant line.
- 9 _____ (IR) sensors are mounted in the control head or overhead in the headliner.
- 11 The _____ temperature sensor is often mounted behind the instrument panel, and a set of holes or a small grill allows air to pass by it.
- 12 A _____-position actuator is able to provide three air door positions, such as the bi-level door, which could allow defrost only, floor only, or a mixture of the two.
- 15 A _____-position actuator is able to move either open or closed.