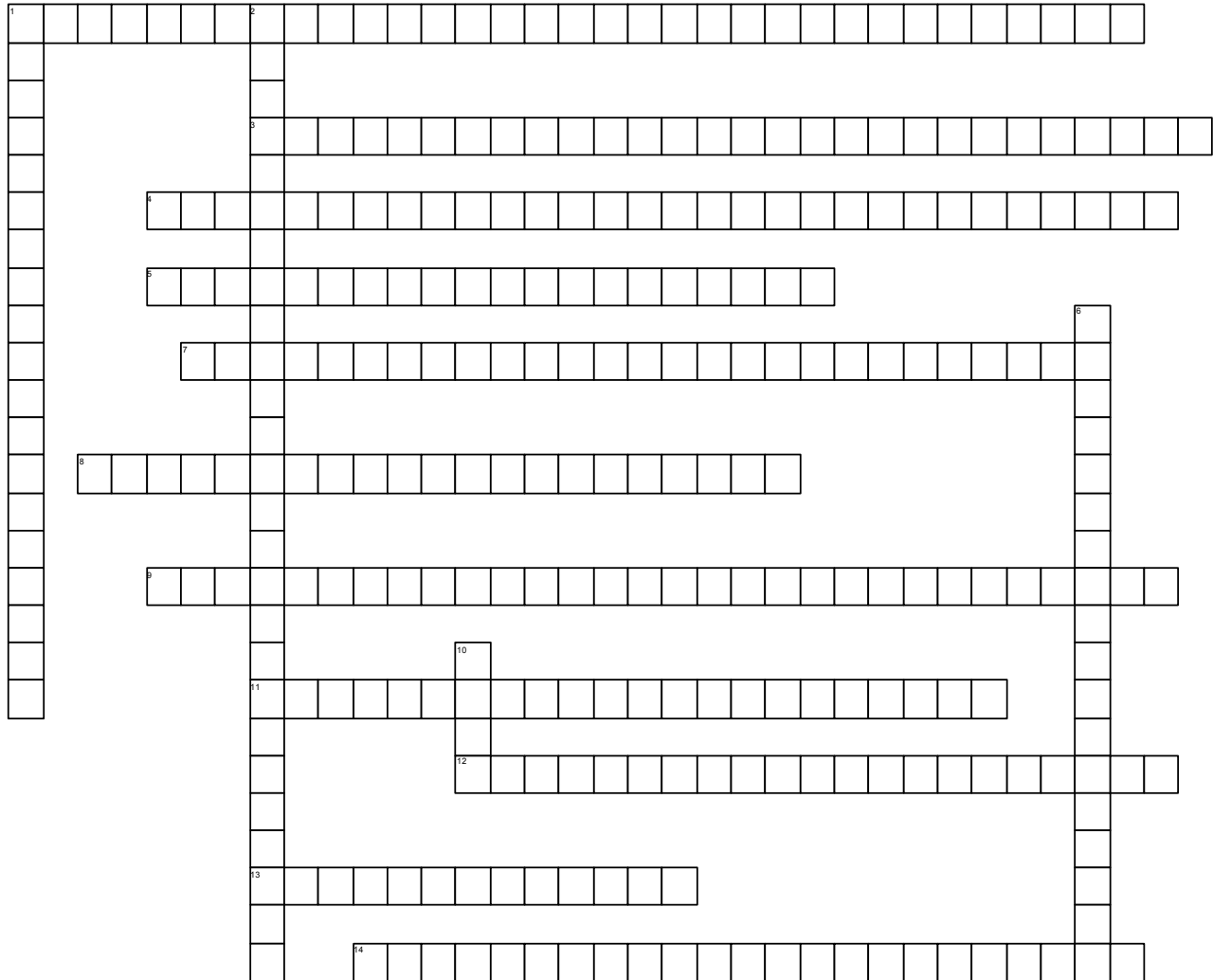


# Automatic Temperature Control Systems

## Chapter 12



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### ACROSS

- 1 With an \_\_\_\_\_ the driver can turn the automatic controls on or off and select the desired temperature.
- 3 The \_\_\_\_\_ is used to measure the air temperature leaving the evaporator.
- 4 The \_\_\_\_\_ is a thermistor and measures the temperature of the engine coolant and is usually located near the engine thermostat.
- 5 A \_\_\_\_\_ is able to move either open or closed, for example the recirculation door.
- 7 The \_\_\_\_\_ measures outside air temperature and is often mounted at the radiator shroud or in the area behind the front grill.

- 8 A \_\_\_\_\_ 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.
- 9 Most automotive thermistors are of the \_\_\_\_\_ type; the resistance changes in an inverse or negative relationship with temperature.
- 11 A few vehicles use a \_\_\_\_\_ to determine the level of in-vehicle humidity.
- 12 The air-conditioning \_\_\_\_\_ is used so the ECM will know if the compressor is running, and by comparing the compressor and engine speed signals, the ECM can determine if the compressor clutch or drive belt is slipping excessively.
- 13 The \_\_\_\_\_ is normally mounted on top of the instrument panel and is used to measure radiant heat load that might cause an

increase of in-vehicle temperature.

- 14 The \_\_\_\_\_ sensor is used to measure the temperature of the air leaving the dash vents.

### DOWN

- 1 The system that controls the airflow to the passenger compartment is called the \_\_\_\_\_ or air distribution system.
- 2 The \_\_\_\_\_ is often mounted behind the instrument panel, and a set of holes or a small grill allows air to pass by it.
- 6 A \_\_\_\_\_ can be used in the low- and/or high-pressure refrigerant line.
- 10 The purpose and function of the \_\_\_\_\_ system is to provide comfortable temperature and humidity levels inside the passenger compartment. □