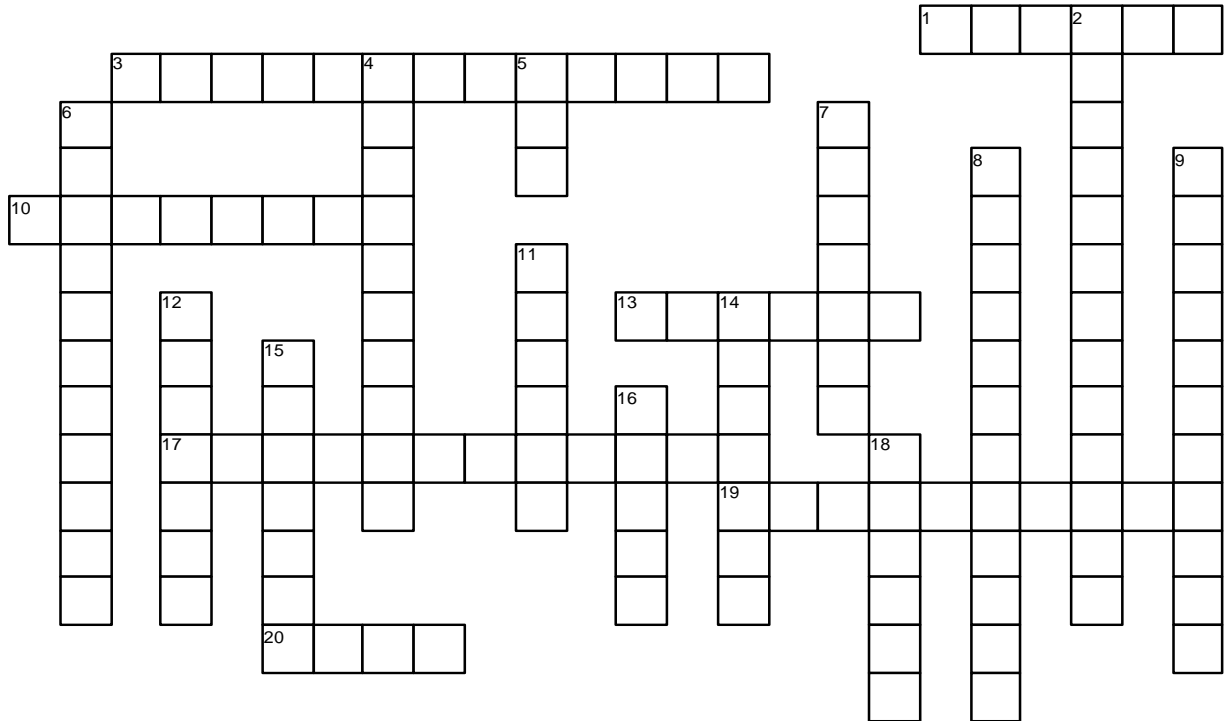


# Driver Information And Navigation Systems

## Chapter 54



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### ACROSS

- 1 An \_\_\_\_\_ display uses a needle to show the values, such as engine RPM.
- 3 \_\_\_\_\_ controls have buttons to allow the driver to control certain audio, vehicle information, and HVAC functions.
- 10 A \_\_\_\_\_ is performed when the ignition is first turned on.
- 13 The \_\_\_\_\_ tube fluorescent display is a popular automotive and household appliance display because it is very bright and can easily be viewed in strong sunlight.
- 17 Speed sensors are commonly called \_\_\_\_\_.
- 19 \_\_\_\_\_ is an interconnected system that combines telecommunications and GPS navigation satellite system technology.
- 20 The \_\_\_\_\_ uses cameras to detect if the vehicle is crossing over lane marking lines on the pavement.

### DOWN

- 2 All diodes emit some form of energy during operation; the \_\_\_\_\_ diode is a semiconductor that is constructed to release energy in the form of light.
- 4 Electronic \_\_\_\_\_ panels use the voltage changes from variable-resistance sensors, such as that of the fuel gauge, to determine fuel level.
- 5 When a vehicle equipped with a digital dash is started, all segments of the electronic display are turned on at full brilliance for 1 or 2 seconds, this is commonly called the \_\_\_\_\_ display.
- 6 A \_\_\_\_\_ is a dash display, usually LCD that allows the driver or passenger to use a finger to perform functions that are displayed on the screen.
- 7 A \_\_\_\_\_ display is a dash that allows the driver to select what data is being displayed.
- 8 A \_\_\_\_\_ is used to display the area at the rear of the vehicle in a screen display on the dash when the gear selector is placed in reverse.cathode
- 9 \_\_\_\_\_ systems use a camera that is capable of observing objects in the dark to assist the driver while driving at night.
- 11 The \_\_\_\_\_ positioning system uses 24 satellites in orbit around the earth to provide signals for navigation devices.
- 12 A \_\_\_\_\_ motor is a type of electric motor that is designed to rotate in small steps based on the signal from a computer.
- 14 Liquid \_\_\_\_\_ displays can be arranged into a variety of forms, letters, numbers, and bar graph displays.
- 15 A \_\_\_\_\_ display uses numbers to indicate values, such as vehicle speed.
- 16 \_\_\_\_\_ activation can be used to perform various functions or setting in the vehicle. Most systems include a list of phrases to use to achieve the best results.
- 18 The \_\_\_\_\_ display is a supplemental display that projects the vehicle speed and sometimes other data, such as turn signal information, onto the windshield.