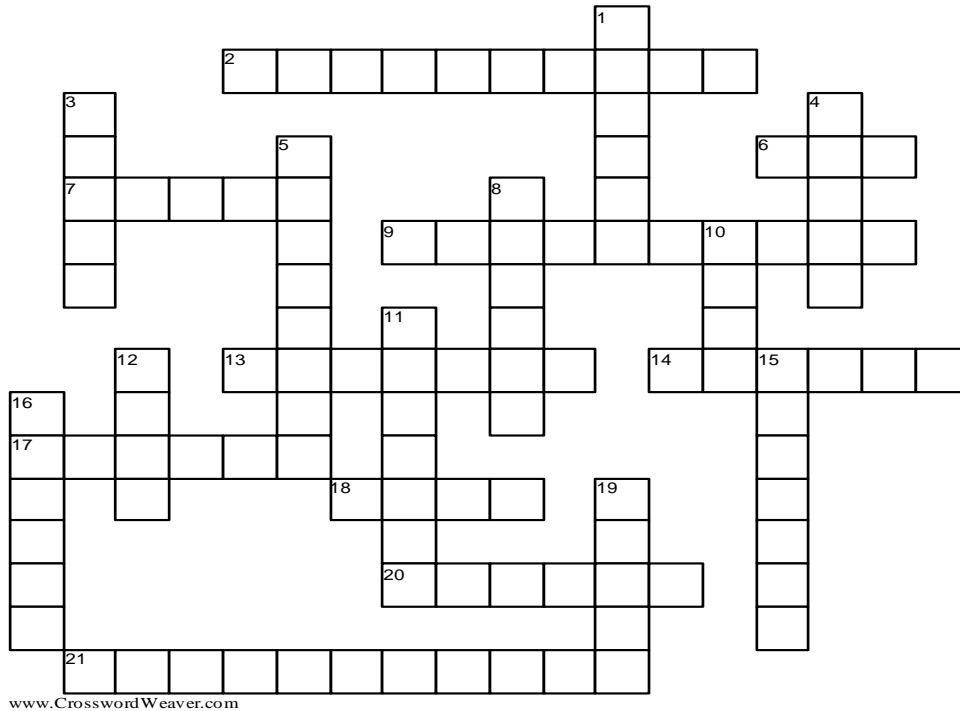


Automotive Electrical and Engine Performance 9th Edition Chapter 18 - Driver Information and Navigation Systems



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ACROSS

- 2** _____ panel (IP): The dashboard area containing gauges, indicators, and displays for vehicle information.
- 6** ____ display: A term used to describe impressive, high-end displays that offer advanced features or high visual quality.
- 7** _____ vision: A system that enhances visibility in low-light conditions by detecting heat signatures or light reflected off objects.
- 9** The use of wireless technology to transmit data from the vehicle to external services for diagnostics, navigation, and communication.
- 13** _____ display: A display that shows information using electronic elements like LEDs or LCDs instead of mechanical indicators.
- 14** A telematics service that provides navigation, roadside assistance, and emergency services to drivers.
- 17** _____ display: A type of display using mechanical components such as needles or dials to represent information.
- 18** _____ test: A diagnostic procedure to ensure all warning and indicator lights on the dashboard function properly.
- 20** _____ crystal display (LCD): A flat-panel display technology used in dashboards and infotainment systems to present information visually.
- 21** _____ random access memory (NVRAM): A type of memory that retains stored information even when the vehicle is powered off.

DOWN

- 1** _____ Electrically Erasable Programmable Read-Only Memory, used to store data that can be modified but retains information when power is lost.
- 3** Instrument ____ cluster (IPC): A module that integrates multiple gauges and indicators, providing essential vehicle information in one place.
- 4** _____ screen: A display that allows the driver to interact with vehicle systems by touching the screen.
- 5** _____ wheel controls: Buttons or switches on the steering wheel that allow the driver to operate vehicle systems like audio or cruise control.
- 8** _____ Positioning System (GPS): A satellite-based system used in vehicles for navigation by determining precise locations.
- 10** ____-film-transistor (TFT): A type of LCD technology used for high-quality vehicle displays with improved image quality.
- 11** _____ display: A display that uses software to simulate traditional gauges and indicators, often customizable by the driver.
- 12** _____-up display (HUD): A system that projects important driving information onto the windshield to help the driver maintain focus on the road.
- 15** _____ motor: A motor that moves in discrete steps, often used to drive gauges in the instrument cluster.
- 16** _____ camera: A camera mounted on the rear of a vehicle that displays a live video feed to assist with reversing and parking.
- 19** _____ activation: A feature that enables drivers to control vehicle systems through spoken commands.