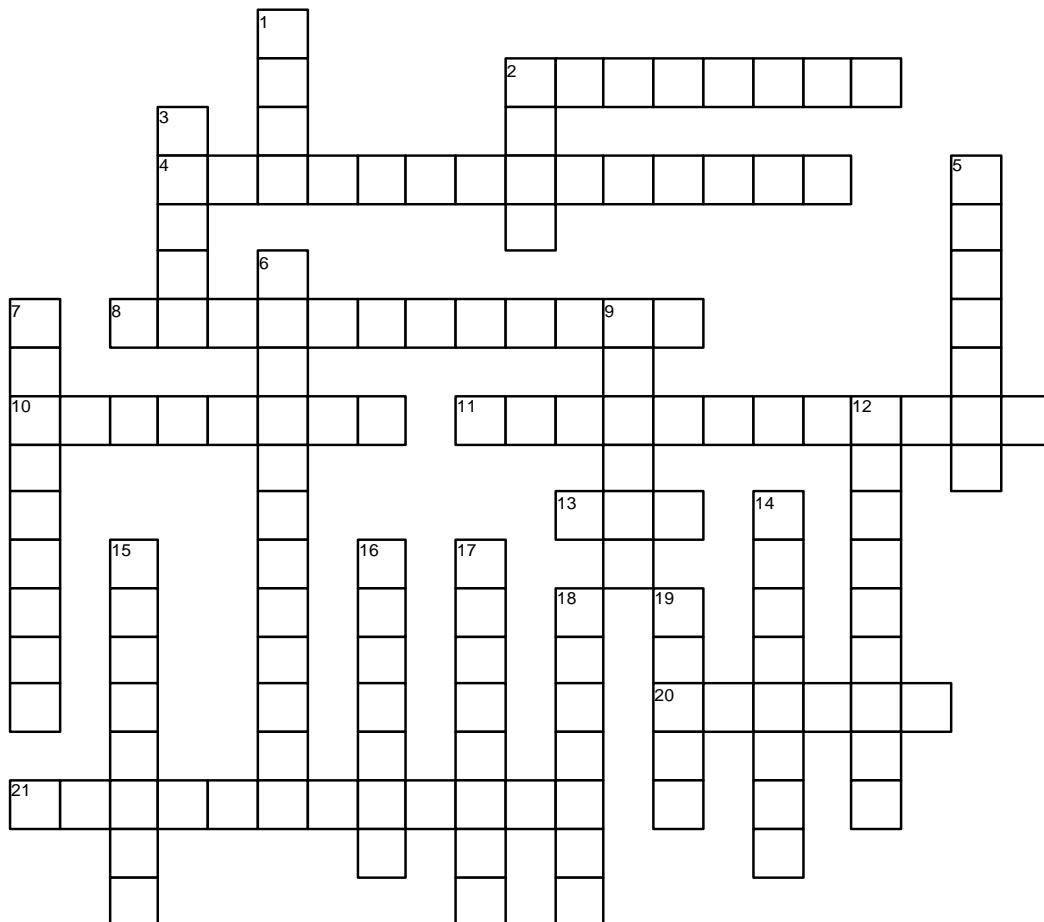


Four-Wheel Drive And All-Wheel Drive

Chapter 126



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ACROSS

- 2 The held member of a planetary gear set is called the _____ member.
- 4 An _____ controlled clutch assembly is actuated by the vehicle's computer based on inputs from the ABS wheel speed sensors.
- 8 The _____ gears rotate around the sun gear.
- 10 When the transfer case controls are in ____-____ drive, the front differential assembly is disconnected from the transfer case.
- 11 ____-____-wheel drive can only be driven in four-wheel drive on slippery surfaces.
- 13 The ____ gear is in the center like the position of the sun in our solar system.
- 20 The _____ carrier attaches the sun gear to the planet pinion gears.
- 21 A _____ is required to allow the drive wheels to travel different distances and speeds while cornering or driving over bumps or dips.

DOWN

- 1 The ____ shift is achieved by the use of a floor-mounted lever to engage and disengage a clutch inside the transfer case.
- 2 The outer ____ gear has teeth on the inside that mesh with

the teeth of the planet pinion gears.

- 3 The ____ gear differential uses two bevel gears or spider gears attached to the output shaft of the transmission.
- 5 A _____ coupling is commonly used on many four-wheel-drive vehicles to provide an "automatic" lockup of the center differential.
- 6 Another name for the ring gear is the _____ gear.
- 7 All-wheel-drive systems use an _____ differential to prevent driveline harshness and vibration.
- 9 The driven member of a planetary gear set is called the _____ member.
- 12 In most ____-____-drive vehicles, the overall gear ratio of the front differential is slightly higher than the overall ratio of the rear differential.
- 14 A _____ may be selected to deliver high torque at low speeds to the drive wheels.
- 15 The purpose and function of the _____ case is to direct engine torque to the front and rear axle assemblies.
- 16 Power is applied to the front wheels through the drive axles to the _____ hubs.
- 17 ____-____ four-wheel drives use a center differential to allow the front and rear wheels to travel at different speeds under all operating conditions.
- 18 Another name for the ring gear is the _____ gear.
- 19 The drive member of a planetary gear set is called the _____ member.