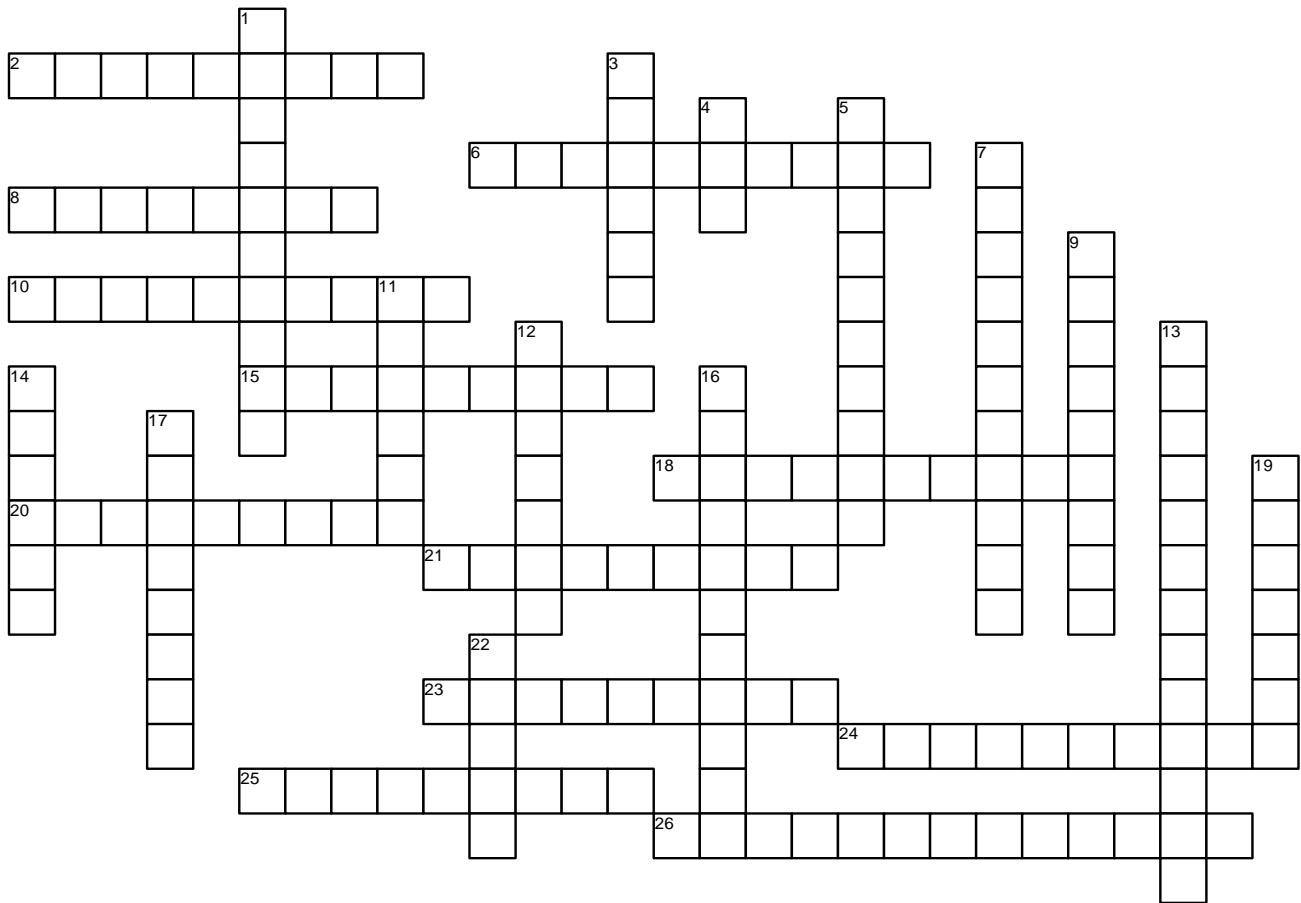


Introduction To Drivetrains

Chapter 3



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ACROSS

- 2** Rear-wheel-drive vehicle driveshafts are usually made from steel tubing, and normally have either a _____ joint or a CV joint at each end.
- 6** Many vehicles use a transaxle to drive the front wheels, called _____ drive.
- 8** A gear set used with shafts that cross each other but do not intersect is a _____.
- 10** Two short driveshafts, called _____, are used to connect the transaxle to the front wheels.
- 15** _____ drive is often designated as "4X4" and refers to a vehicle that has four driven wheels.
- 18** The smaller gears in a gear set may also be called a _____.
- 20** A _____ is a compact combination of a

transmission, the final drive gear reduction, and the differential.

- 21** Most automatic transmissions use _____ gear sets, which are a combination of gears.
- 23** _____ drive has a transmission mounted behind the engine and uses a driveshaft to transfer power to the rear axle and driving wheels.
- 24** A variation of the spiral bevel gear is the _____, also called an offset-bevel gear.
- 25** _____ are the simplest gears and are on parallel shafts with teeth cut straight or parallel to the shaft.
- 26** In a planetary gear set the _____ hold the planet gears in position.

called a propeller shaft.

- 3** A _____ transmission is also called a standard transmission.
- 4** _____ is also called full-time four-wheel drive.
- 5** _____ can be determined by dividing the number of teeth on the driven gear (output) by the number of teeth on the driving gear (input).
- 7** To determine horsepower, a _____ is used to measure the amount of torque an engine can produce at various points through its operating range.
- 9** If the driving gear has more teeth than the driven gear there will be an increase in speed and a reduction in torque. This is called an _____.
- 11** _____ is a rotating or twisting force that may or may not result in motion.
- 12** _____ gears are the most

used of all gears used in transmissions. The gears have teeth cut in a spiral or helix shape.

- 13** The effective diameter of a gear is the _____ or pitch line.
- 14** The _____ is used to stop the power flow to allow the transmission to be shifted.
- 16** _____ gears, like helical gears, have curved teeth for more quiet operation.
- 17** In a planetary gear set the _____ is also called an annulus gear or internal gear.
- 19** In a planetary gear set the _____ is the gear in the center.
- 22** _____ gears are used on nonparallel shafts. The outer edge of the gear must be cut on the angle that bisects the angle of the two shafts.

DOWN

- 1** A _____ is also