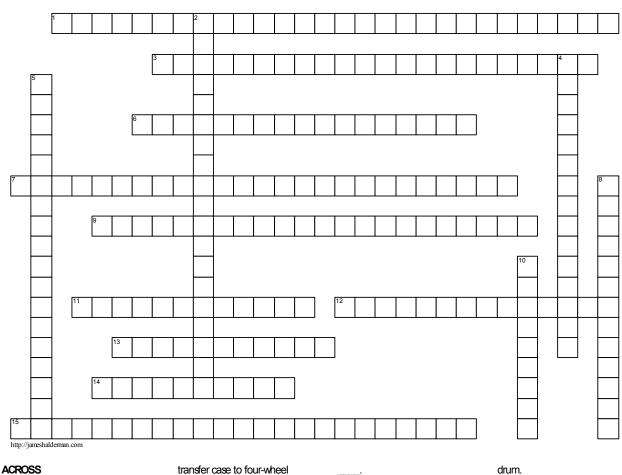
Four-Wheel and All-Wheel Drive

Chapter 15



1 An	
	system is
used to d	connect or
e e	

disconnect the outboard CV joint with the wheel hub.

- has a positive, mechanical connection between the front and rear driveshafts when shifted into 4WD.
- 6 4WD/AWD vehicles that are based on FWD vehicles integrate a into the

transaxle.

7 The __ usesthe data from the input and output speed sensors to determine when to shift the

transfer case to four-	wheel
drive.	

- _ system uses a center differential, which allows for both the front and rear axles to rotate at different speeds.
- 11 There is a need for a unit, usually a where the engine torque can be split to either one drive axle or both to provide four-wheel drive.
- ____ for cars, pickups, and light trucks has steadily evolved from the somewhat crude but rugged Jeeps of World War II to sport cars and sport-utility vehicles.
- 13 Power is applied to the front wheels through the drive axles to the _

- 14 Most front drive axles use an _____ with ball joints for the steering pivots and a Cardan Ujoint.
- **15** In an transfer case the operation of the range dutch and mode synchronizer assembly is controlled by the motor/encoder assembly.

DOWN

- is used to control torque between two outputs and are connected in parallel.
- series of steel plates housed in a sealed steel

drum.

- 5 A_ is used on AWD systems to prevent driveline harshness and vibration, commonly referred to as "driveline windup."
- transfer cases that deliver power to both driveshafts all of the time are called mechanically active.
- 10 The _____ is achieved by the use of a floor-mounted lever to engage and disengage a dutch inside the transfer case.