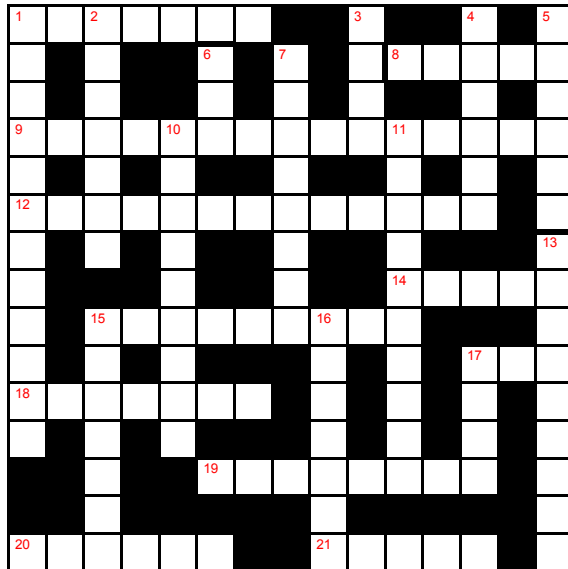


Automotive_terms_15x15_2008-10-07

B.B. Huria



Across

- 1 The vertical or sometimes diagonal roof supporting member located at the extreme rear of the roof or greenhouse structure on station wagons and some sedan models. (1-6)
- 8 The layers of cord, fiberglass, steel or structural fabric that make up the tyre carcass and reinforcing belts (5)
- 9 A drive system where the engine and transaxle components apply the driving force to the front wheels rather than the rear wheels (5-5,5)
- 12 A wheel gear (the pinion) meshes with a toothed rack; converts rotary to reciprocating motion (and vice versa) (4,3,6)
- 14 In present day high tech cars, one need not _____ pressure on brakes to stop the vehicle (5)
- 15 In a disc brake system, they are the replaceable flat segments consisting

of a rigid backing plate plus frictional lining that takes the place of the shoe and lining in a drum brake. (5,4)

- 17 The actual horsepower of an engine, measured by a brake attached to the driving shaft and recorded by a dynamometer (3)
- 18 In the side view, the foremost roof support of a vehicle, located in most instances between the outer edge of the windshield and the leading edge of the front door upper. Also known as an A-Post. (1-6)
- 19 A valve that regulates the supply of fuel to the engine (8)
- 20 The distance the piston travels from bottom dead center to top dead center within the cylinder (6)
- 21 A contract granting the use of a car for a specified period of time in return for a set fee (5)

Down

- 1 A bevel gear that is used on the rear axle of automobiles to allow wheels to rotate at different speeds on curves (12)
- 2 A bill or statement issued by person who has sold goods or rendered services to a customer (7)
- 3 A combustible substance that provides energy to the engine (4)
- 4 A gear with a small number of teeth designed to mesh with a larger geared wheel or a rack (6)
- 5 Maruti's popular middle segment car model (6)
- 6 A popular high end car maker of Germany (3)
- 7 A mechanical or electrical device that draws fuel from the fuel tank and delivers it to the carburetor or injectors (4,4)
- 10 A transmission and differential combined in

one integrated assembly, eliminating the need for a separate connecting drive shaft. This configuration is typical in front-wheel-drive vehicles (9)

- 11 The shaft that transmits power from the transmission to the differential in a rear-drive power train (5,5)
- 13 A visual signal to control the flow of traffic at intersections (9)
- 15 The roof support between a vehicle's front door window and rear side window, if there is one (1-6)
- 16 An aerodynamic device designed to improve traction by increasing the downforce on the car (7)
- 17 The diameter of an engine cylinder or bearing (4)