Suspension System Principles And Components
Chapter 6

http://jameshalderman.com

ACROSS
3 _______ help prevent the leaves from separating whenever the leaf spring is rebounding from hitting a bump or rise in the roadway.
5 A _______ consists of welded or riveted frame members around the entire perimeter of the body.
6 _______ is the term used to identify the weight of the car or truck that does not move up and down and is supported or sprung by the suspension.
11 _______ refers to the force that causes the front of the vehicle to drop down while braking.
12 _______ construction consists of formed sheet steel used to construct a framework for the entire vehicle.
13 Coil springs are usually installed in a _______.
16 The only knuckle that uses a ______ is a steering knuckle on an I-beam or twin I-beam front suspension.
19 _______ refers to the reaction of the body of a vehicle during acceleration.
20 The leaf spring is attached to the frame with movable mounting hangers called _______.
21 _______ are actually ball-and-socket joints, similar to the joints in a person’s shoulder.
22 The area separating the engine compartment from the passenger compartment is called the ______.
23 _______ construction is a design that combines the body with the structure of the frame.
24 A _______ ______ is a partial frame often used on unit-body vehicles to support the power train and suspension components.
25 A _______ is a common name for a type of perimeter frame where the transverse connecting members are straight across.

DOWN
1 ______ are made of special round spring steel wrapped in a helix shape.
2 Since the early 1980s, fiberglass-reinforced epoxy plastic ______ ______ have been used on production vehicles.
4 ______ are constructed of one or more strips of long, narrow spring steel.
7 The leaves are held together by a _______.
8 A _______ ______ is a suspension link that connects a knuckle or wheel flange to the frame.
9 A _______ _______ is hard to classify either as part of the suspension or as part of the wheel.
10 A _______ _______ is a spring that is a long, round, hardened steel bar similar to a coil spring except that it is a straight bar.
14 All suspensions use springs that share a common characteristic described by _______.
15 Depending on the suspension design, springs are installed a certain distance from the wheel, which determines the ratio of wheel travel to spring travel, or _______.
17 Hard rubber or plastic cushions or ______ ______ are usually mounted between the coil spring and the spring seat.
18 A basic ______ consists of a rubber air chamber, generally closed at the bottom by a piston fitted into a control arm, or by a strut shock absorber.