Suspension System Components and Operation

Chapter 24

ACROSS
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.
3. _____ _____ are made of special round spring steel wrapped in a helix shape.
4. _____ _____ are constructed of one or more strips of long, narrow spring steel.
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.
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.
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 ______._______.
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 ______._______.
16. The only knuckle that uses a ______ is a steering knuckle on an l-beam or twin l-beam front suspension.
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.
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
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