Front Suspension And Service
Chapter 7

ACROSS

1. At the end of many solid I-beam or tube axles are ________ that allow the front wheels to rotate for steering.
4. A ________ can also be used to help locate worn or defective suspension components.
7. A ________ ________ uses two control arms as well as a structural strut assembly.
9. Another name for an SLA suspension is the ___ ____ suspension.
10. To control longitudinal support, a ________ is attached to each beam and is anchored to the frame of the truck using rubber bushings.
13. The two main links in a ___ suspension are the upper control arm and the lower control arm.
15. Early versions of the twin I-beam systems used kingpins, while later models used ball joints to support the ________ ________ and spindle.

DOWN

2. Many load-carrying ball joints have wear indicators with a raised area around the grease fitting, called ________ ________.
3. ________ can be of several types, including a MacPherson.
5. Defective shock absorbers can cause ______ ______.
6. A _____ ____ front suspension is very strong and is still being used in the manufacture of medium and heavy trucks.
8. A ______ ____ front suspension was used for over 30 years on Ford pickup trucks and vans.
11. Some replacement control arm bushings have a higher ________ rating than the original.
12. Many GM front-wheel-drive vehicles use a MacPherson strut with a large-diameter spring seat area, this is called a ________.
14. Some ball joint studs have a slot or groove where a ________ is used to hold the ball joint to the steering knuckle.