Steering Linkage Service
Chapter 50

ACROSS
1. The ____________ ____ is performed by disconnecting the outer tie rod end and measuring the effort required to move the tie rod in the socket.
3. Another name for the inner tie rod end is the ____ ______ ________.
6. ______ _____ are the projections or built-up areas on the control arms of the front suspension designed to limit the steering movement at full lock.
7. A parallelogram-type linkage uses four _____, two inner and two outer.
8. One of the most effective, yet easy to perform, steering component inspection methods is called the ___ _____ ________.
10. A ____________ is another name for a grease fitting.
13. ______ _____ _____ use bolts to secure the inner tie rods to the rack.
14. A ______ ______ attaches to the steering gear output shaft on a parallelogram-type steering linkage.
16. A ____________ is similar to a shock absorber, and it absorbs and dampens sudden motions in the steering linkage.
17. If the steering gear linkage is located behind the wheels, it is called _____.
18. It is important that all joints be lubricated with chassis grease through a ______ _______.

DOWN
2. An ____ is a tie rod end that requires no lubrication.
4. One type of steering linkage often used on light trucks and vans is the ___-______ ________.
5. _____________-______ means that the front wheels and rear wheels are steered in the opposite direction.
9. ____________ means that the front and rear wheels are steered in the same direction.
11. _____ _____ is the term used to describe a vehicle that has the steering gear in front of the front wheel centerline.
12. Most conventional steering gear linkages use the ______ _____ ________-______ type design.
13. A ______ _____ is located between the tie rods on a parallelogram-type steering linkage.
15. The _____ provides one analog signal and three digital signals.