
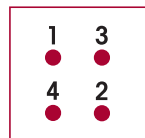




SECTION 15

Technical Procedure Publication Quiz

- 1) What three items have the greatest influence on tire wear?
 - a) Toe
 - b) Air Pressure
 - c) Camber
 - d) Thrust Angle
- 2) Caster may be increased or decreased using shims or wedges.
True or False
- 3) Cross caster may be changed using shims or wedges.
True or False
- 4) You may bend a STEERTEK axle to correct for improper camber settings.
True or False
- 5) In an unladen vehicle the correct toe setting for the STEERTEK axle is?
 - a) 0 to negative $\frac{1}{8}$ "
 - b) 0 to negative $\frac{1}{16}$ "
 - c) 0 to positive $\frac{1}{32}$ "
 - d) $\frac{1}{16}$ " \pm $\frac{1}{32}$ "
- 6) When reducing wheel cut on the STEERTEK axle it is necessary to check the steering gear box poppets.
True or False
- 7) The torque requirement for the $\frac{3}{4}$ " front and rear spring hanger eye bolts are the same.
True or False
- 8) When servicing the clamp group a technician should always replace the following items.
 - a) Hex bolts/U-bolts (Grade 8) and nylon locknuts (Grade C).
 - b) Bottom axle wrap liner.
 - c) Upper axle wrap liner, if removed.
 - d) All of the above.
- 9) What is the  torque sequence for the clamp group? See the Figure below.



- a) 1,3,2,4
 - b) 1,4,2,3
 - c) 1,2,3,4
 - d) The torque sequence does not matter.
- 10) For a vehicle equipped with a STEERTEK axle it is an acceptable practice to tow using a tow chain wrapped around the axle.
True or False.
 - 11) The front leaf spring eye bushing is non-serviceable.
True or False
 - 12) To remove the STEERTEK knuckle you must.
 - a) Drive the kingpin out of the axle bore.
 - b) Remove the locking pins before driving the kingpin out.
 - c) Remove the two $\frac{5}{8}$ " socket head cap screws and separate the knuckle assembly.
 - d) None of the above.



- 13) What is the maximum allowable specification for lateral movement of the steering knuckle?
- a) 0.001"
 - b) 0.075"
 - c) 0.030"
 - d) 0.015"
- 14) When AIRTEK ride height is checked, it is not necessary to cycle the leveling valve before check the ride height.
True or False
- 15) Worn kingpins are easily removed and replaced.
True or False
- 16) Although the AIRTEK/SOFTEK is low maintenance, it is recommended to do a visual inspection on the axle and suspension every _____ miles.
- a) 100,000 or 1 year
 - b) 50,000 or 6 months
 - c) Never
- 17) When replacing the rear spring $\frac{3}{4}$ " length hanger bolts, the new bolts should be installed:
- a) From the outside facing in
 - b) It does not matter what direction the bolts are facing
 - c) From the inboard side to outboard side
 - d) None of the above
- 18) The STEERTEK axle combined with the clamp group and stiff front spring limb help to make the AIRTEK torsionally rigid and reduce body roll.
True or False
- 19) How many grease points are there on the STEERTEK axle?
- a) 2
 - b) 6
 - c) 8
 - d) None
- 20) It is acceptable to replace a failed shock absorber with any brand that will fit.
True or False
- 21) A shock that is misting is classified as a leaking shock and should be replaced immediately.
True or False
- 22) Prior to performing a total vehicle alignment the following components must be inspected.
- a) Front and rear spring mounts
 - b) Steer axle tires
 - c) Ride height
 - d) All of the above
- 23) Wheel bearing adjustment has no impact on tire wear.
True or False
- 24) When the clamp group is disassembled the use of a cutting torch is acceptable to help remove seized bolts and nuts.
True or False
- 25) Prior to steering knuckle re-assembly it is critical that residual Loctite be removed and re-applied from the upper kingpin connection.
True or False



- 26) AIRTEK is available exclusively with the STEERTEK axle.
True or False
- 27) To heat test a shock absorber you should drive a vehicle at moderate speeds for fifteen minutes.
True or False
- 28) The combination of the air spring and mechanical spring support 100% of the vertical load on the AIRTEK suspension. What is the load ratio distribution between the two springs?
- a) 25% air spring – 75% leaf spring
 - b) 50% air spring – 50% leaf spring
 - c) 85% air spring – 15% leaf spring
 - d) Ratio will fluctuate with load
- 29) If the kingpin bushing is worn, then both bushings on that knuckle need to be replaced.
True or False
- 30) The unique packaging of the steering knuckle will allow up to _____ degrees of wheel cut on the STEERTEK axle.
- a) 50°
 - b) 32°
 - c) 87°
 - d) None of the above
- 31) A pre-alignment inspection reveals a tie rod end is worn out of specification. What is the correct action needed to complete the alignment.
- a) Fill the tie rod with grease to absorb excessive play.
 - b) Replace the tie rod and reset toe before alignment.
 - c) Perform alignment and then replace tie rod end and reset toe.
 - d) Align vehicle and do not repair tie rod end.
- 32) The seal on the thrust bearings are installed facing down.
- a) True
 - b) False
 - c) Doesn't matter
- 33) When servicing tie rod ends it is not necessary to have the part number located on the tie rod tube to order tie rod service kits.
True or False

CERTIFICATE

Hendrickson will provide a personalized AIRTEK/SOFTEK Technical Procedure Quiz Achievement Certificate to candidates scoring 80% or higher on the test. Simply complete the test and fill in the enclosed answer sheet or on a separate sheet with the return address, name, phone number, and company name as it will appear on the award to:

Hendrickson
ATTN: Truck Marketing Test Quiz Assessment
800 S. Frontage Road
Woodridge, Illinois 60517

www.hendrickson-intl.com



Truck Suspension Systems
800 South Frontage Road
Woodridge, IL 60517-4904 USA

630.910.2800
Fax 630.910.2899