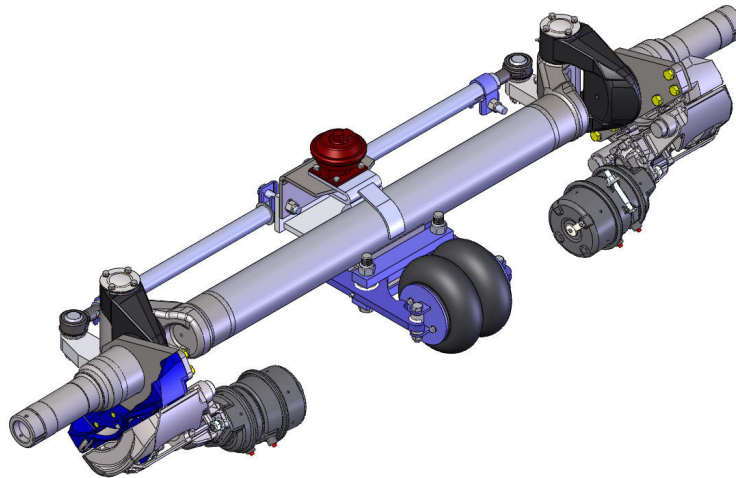


SUBJECT: FORWARD FACING TIE-ROD STYLE SSA

Ingersoll Axles has recently released a Forward Facing Tie-rod version of their industry leading self-steer axle. This new SSA allows turn angles up to 30deg for Disc Brake axles.



This is a technical supplement to the current Ingersoll Axles Installation and Maintenance Manual in regards to new Torpress operating pressures and Toe In/Out specifications for this new style of SSA. The other procedures for installing, aligning and maintaining a SSA do not change and can be applied as usual.

Torpress Air Spring Pressure (Procedure IN024)

During testing the new Forward Facing Tie-rod design used approximately **80 psi** of air pressure in the Torpress air spring to maintain normal steering and operation of the axle. This is greater than the standard rear facing design which requires between 30-40 psi.

Note: It is important to set the Torpress pressure correctly or you will not get the proper performance from your SSA.

Toe In/Out Setting (Procedure IN020)

The new Forward Facing Tie-rod design has a tie-rod height of $-2\frac{3}{8}$ ". During testing an UNLOADED Tie-rod height of $\frac{1}{4}$ " **Toe-In** was determined to be the appropriate setting. As with the standard rear facing design, the LOADED setting should be $\frac{1}{16}$ " (+ $\frac{1}{16}$, -0) of Toe-In.

Note: An improper Toe-In/Out setting will lead to increase tire wear and degraded performance of the SSA.

If you have any questions concerning the new Forward Facing Tie-rod design please contact the Ingersoll Axles Technical Support Team.