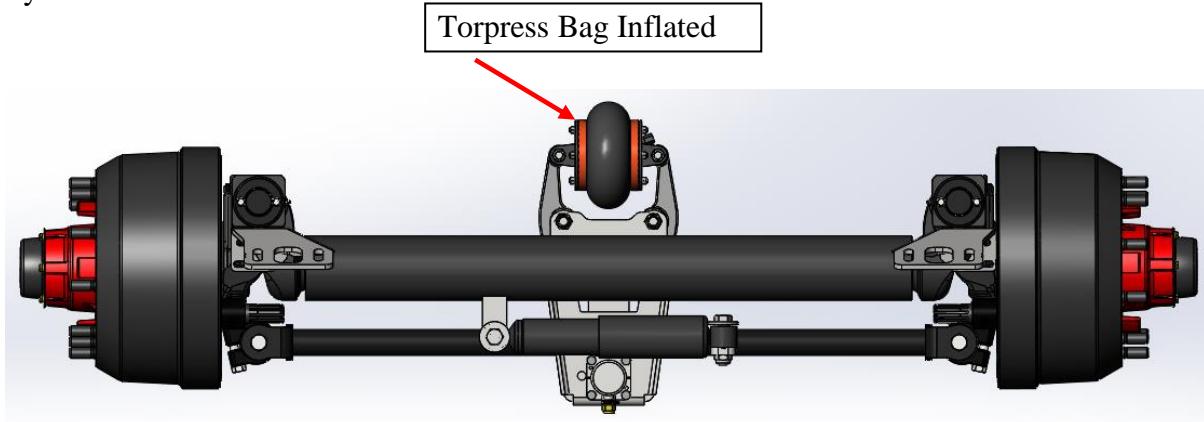


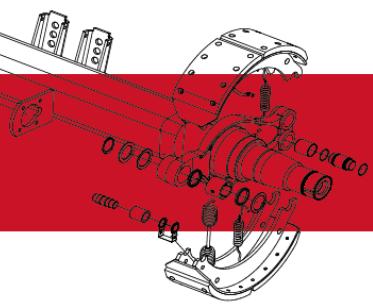
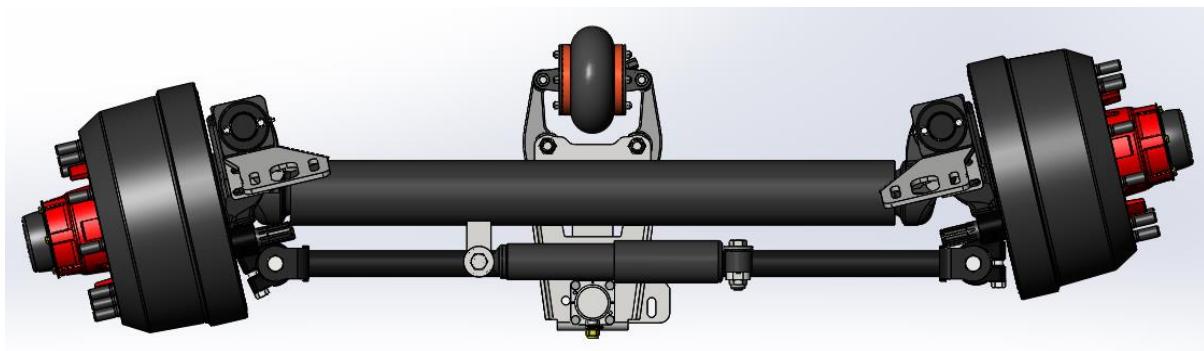
How do you set the pressure regulator on an air self steer axle?

When a steer axle is travelling on a straight road the driver needs the steer axle to be stable and remain straight. Going around small bends or small steering adjustments the axle should remain straight and behave as a fixed axle. It does this using the inflated torpress bag, at the front of the steer axle, which keeps the axle straight using the air pressure in the bag supplied by the vehicle.



When the vehicle comes to a corner or roundabout the driver needs the steer axle to turn so the torpress bag has to collapse and exhaust the air in the bag. This has to be automatic. A pressure regulator keeps the bag inflated up to a set value and then dumps the air collapsing the torpress bag. The regulator value has to be high enough to keep the bag inflated on straight roads and low enough to trigger it to collapse on large vehicle turns.

The value to set the pressure regulator at depends on a number of factors such as the number of axles on a vehicle, the weight and length of the vehicle or the size of the tyres. On average the air pressure in the torpress bag when the vehicle is going straight should be 1-3Bar. When the pressure increases above this amount the bag collapses and the axle steers.





If when testing the vehicle the steer axle does not go straight quick enough after a corner then the regulator pressure is set too low. If the steer axle does not steer on corners then the pressure is set too high. The pressure regulator setting needs to be adjusted. In both cases when the pressure is changed on the regulator the pressure adjuster has to be put back into the locked position.



Pressure Regulator

