

# Basic steering axle maintenance

## General

Lubrication and maintenance follows the same procedure as that of the rigid axles. However, additional lubrication needs to be done on the steering knuckle of the self-steer axle. The lubrication of the steering knuckle needs to be repeated every 6 weeks with BPW special long life ECO-Li<sup>Plus</sup> grease in order to adhere to the warranty terms and conditions. The process of lubrication is described below.

## Process of lubrication

### Step 1:

Lift the axle so that wheels are clear of the ground

### Step 2:

Rotate the steering axle until it locks and a clearance is visible between the thrust washers, see Figure 1



Figure 1

### Step 3:

Grease the knuckle, by using the bottom grease nipple (Figure 2), with ECO-Li<sup>Plus</sup> until fresh grease is forced out between the thrust washers, see Figure 3

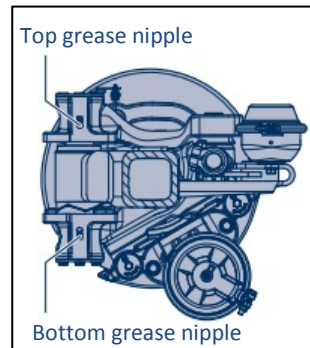


Figure 2 - Disc brake

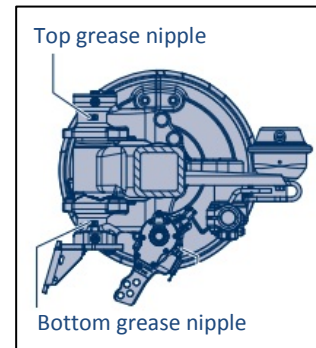


Figure 2 - Drum brake



Figure 3

**Step 4:**

Grease the knuckle, using the top grease nipple (see Figure 2) with ECO-Li<sup>Plus</sup> until fresh grease is forced out, see Figure 4.

**Step 5:**

Repeat the same process on the other side of the axle.



Figure 4

Note: The use of a high-pressure central lubrication system which is capable of feeding special long life grease of consistency class 2-3 is permissible. The use of liquid lubricants is not permitted.

## Additional inspection

Check the vertical play of the steering pivot bearing. If the vertical play is greater than 13 mm (Dimension X – Figure 5), the shaft thrust washers (1 and 2 – Figure 5) are worn beyond the wear marking (see arrow – Figure 5) or if the wear limit H = 20 mm is undercut, the shaft thrust washers must be replaced.

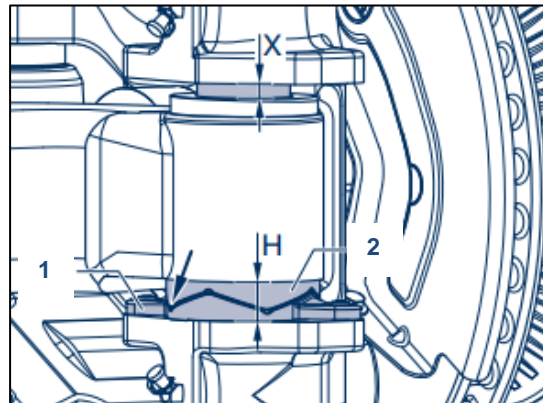


Figure 5