

## Improvement of the SL pivot bolts

BPW is constantly striving to improve its products in the realm of safety, reliability and ease of maintenance, even the older product range undergoes constant innovation to ensure that these criteria's are improved. In the SL program the pivot bolt is one of these products that have undergone a design change. The pivot bolt connects the entire running gear to the vehicle frame and as such is a critical connection when considering safety and reliability.

In the SL program, the pivot bolt, nuts and washers are improved for the following arrangements:

- Trailing arm pivot bolts for the rigid and adjustable air suspension hanger bracket
- Double-sided axle lifting devices
- Center axle lifting devices
- One-sided axle lifting devices

The improvement comes in by changing the following:

1. The standard thread, M30x3.5 to fine thread, M30x2
2. Pivot bolts are tapered in the middle
3. The normal washer is changed to a hardened washer

The advantage in introducing these changes is that a higher preload force is achieved when tightening the connection to 900 Nm. The tapered middle reduces the settling phenomena (principle "elastic connection") and together with the hardened washer makes the screw connection far more secure. The new pivot bolt kits and axle lift kits will be available for purchase from April 2019.

Below is an illustrative summary highlighting the difference between the old and new pivot bolt



**Pivot bolt – old (M30x3.5)**

- **Standard thread**



**Pivot bolt – new (M30x2)**

- **Tapered in the middle**
- **Fine thread**

|                              |                              |
|------------------------------|------------------------------|
| <b>Pivot bolt kits - old</b> | <b>Pivot bolt kits - new</b> |
| 05.857.00.15.0               | 05.857.00.55.0               |
| 05.857.00.09.0               | 05.857.00.55.0               |
| <b>Axle lift kits - old</b>  | <b>Axle lift kits - new</b>  |
| 05.828.31.34.0               | 05.828.31.53.0               |
| 05.828.31.76.0               | 05.828.31.76.0               |