

## CHANGE IN WHEEL HUB SEALING

The type of hub sealing has changed mainly in the heavy front and rear truck drive axles. The hub sealing has changed also in the industrial SRDP-30-S and SSDP-18 axles. In the new wheel hub seal the pre-shielding before the actual sealing lip is better than in the older seal type. The outer shell of the new seal is rubber coated compared to the older seal where the outer surface was metal.

In addition, the dimensions of the seals have changed, except the inner diameter of the rear axle hub seal. The new dimensions are based on the International System of Units. The diameter dimensions of the rear axle seal are 127/160 mm (earlier 127/159) and respectively in the front axle seal 150/180 mm (earlier 133.4/187.5).

### Cause of Change:

To improve sealing life and to prevent seal leaks.

### Identify and Changed Parts:

**Front Axles:** FSDP-14, FSFP-14, FSMP-14, SSDP-18-G and also non-drive FSND-12 & FSFN-14.

#### Changed Parts in Front Axles:

Description	Old Part No.	New Part No.
Shaft seal	591122-13301	591122-15001
Spacer Ring	540-415-1010	540-415-1300
O-Ring Ø133*2.62 mm	--	91101-33026
Wheel Hub (FSXX-12/14 Axles)	541-411-1401	541-411-1410
Wheel Hub (SSDP-18 Axles)	541-411-1402	541-411-1412

**Rear Axles:** FRDP-11/13/16, FRMP-11/13/16, FRFP-11/13/16 and SRDP-30-S

#### Changed Parts in rear Axles:

Description	Old Part No.	New Part No.
Shaft Seal	91122-12701	591122-12702
Wheel Hub (FRDP/FRMP/FRFP-11/13/16 and SRDP-30-S Axles)	143-441-0410	543-441-0700
Wheel Hub, (FRDP/FRMP/FRFP-11/13/16 Axles with Al-Rims)	543-441-0600	543-441-0710
Wheel Hub (FRDP/FRMP/FRFP-11/13/16 with Compact Hub)	543-411-3510	543-411-3800

### Interchangeability in Service:

It is not possible to install parts of the new design individually to an axle of the earlier design.

The new hub sealing is possible to install to the earlier design as follows:

Front Axles: Wheel hub, spacer ring, seal and o-ring to be replaced together.

Rear Axles: Wheel hub and seal to be replaced together.

**Date of Change:**

<b>Axle Type</b>	<b>Serial No.</b>	<b>Date</b>
FRDP/FRMP/FRFP-11/13 axles with compact hub	20322	February 2002
FRDP/FRMP/FRFP-13/16 axles (BTE-hub)	20580	March 2002
FSDP/FSFP/FSMP/FSFN-14, FSND-12, FSFN-14 & SSDP-18-G axles	20287	February 2002
SRDP-30-S axles	22055, 22072, 22073 and all since 22221	September 2002

**Installing of the Hub Seals:**

Following installing tools should be used when driving the new seal into it's place

- Seal 591122-12702 with tool **7543-071-020**.
- Seal 591122-15001 with tool **7541-040-150**.

**Note! No sealing compound is allowed to use in installing.**

The new seal type has rubber coated outer surface for sealing the gap between seal and seal housing.

When installing the assembled hub, the axle spindle has to wiped with blend of alcohol and water (1:1) to prevent friction between the spindle and the hub seal.

Oiling is not recommended because there are risk of the seal inner race turning with the hub on the axle spindle.

If installed dry, the internal pre-shielding in the hub seal may damage as result of the axial pressure.