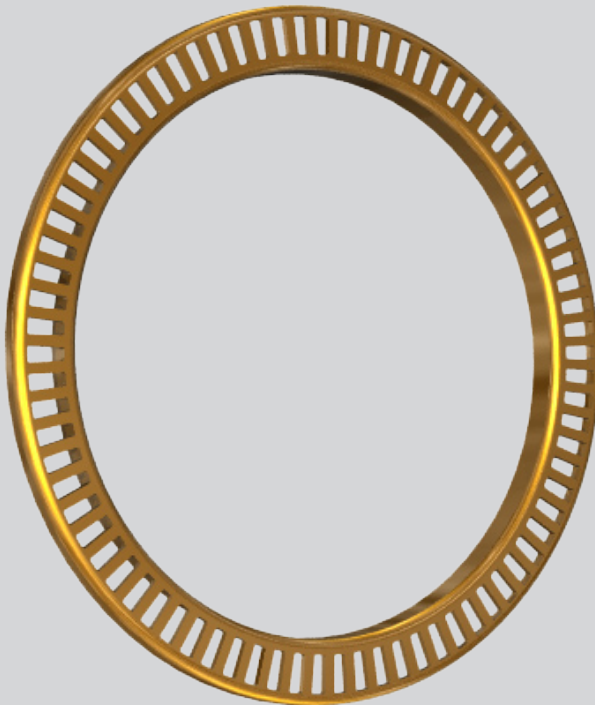


## Repair instructions

### Toner ring replacement



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# 1 General information

Please read these instructions completely and carefully prior to performing any work. Keep them in a safe place for future reference. These instructions describe how to remove and replace the toner ring. They are intended for exclusive use by appropriately trained and qualified personnel of authorized service centers specialized in trailer vehicles and authorized specialist companies. The toner ring must be removed and replaced in accordance with the applicable safety regulations and good engineering practice so that employees and third parties are not exposed to danger. All safety instructions and warnings given in these instructions must be strictly followed.

## 1.1 Safety information

Information accented by a signal word such as DANGER, WARNING, CAUTION, or NOTICE, must be followed at all times. Additional notes are utilized to emphasize areas of procedural importance or provide additional information. Failure to follow the instructions mentioned in this publication may jeopardize the personal safety of the service technician or vehicle operator.



### **DANGER**

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



### **WARNING**

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



### **CAUTION**

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

### **NOTICE**

NOTICE indicates a potentially hazardous situation which, if not avoided may result in property damage.



### **IMPORTANT**

Indicates an operating procedure or practice that is essential to follow.



### **INFORMATION**

Provides additional information.

## 1.2 Legal information

SAF-HOLLAND basically excludes any liability for damage unless there is gross negligence or intent on the part of SAF-HOLLAND.

SAF-HOLLAND reserves the right to change these instructions at any time without notice and does not assume any liability for the correctness, completeness, and up-to-date status of these instructions. Moreover, SAF-HOLLAND makes no expressed or implied warranty or representation based on the enclosed information. All disputes that may arise on the basis of these instructions are subject to German law. Exclusive place of jurisdiction shall be the competent court of Aschaffenburg in Germany.

The original version of these instructions is in German. Only the German instructions are binding. In case of any doubts, the German original version shall prevail.

## 1.3 Order and contact information

To buy the toner ring and the toner ring installation tool (part number 03 434 3331 00), please contact SAF-HOLLAND's competent spare parts company.

If you have any questions after reading these instructions, please do not hesitate to contact SAF-HOLLAND's customer service at +49 6095 301-602 or visit SAF-HOLLAND's home page at [www.safholland.com](http://www.safholland.com).

## 2 Part numbers

The part number embossed on the guide ring on the bottom of the toner ring (Fig. 1) indicates the number of teeth of the toner ring. Toner rings with 80 teeth have the part number 04 029 1069 00 and toner rings with 90 teeth have the part number 04 029 1070 00.

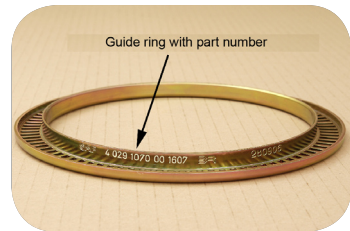


Fig. 1 · Guide ring with part number

### 2.1 Toner ring 80 t. (04 029 1069 00)

Toner ring with 80 teeth for the following axle versions:

- S7-3015 / Z7-3015
- Z9-3020 / ZL9-3020
- Z11-3020 / ZL11-3020

### 2.2 Toner ring 90 t. (04 029 1070 00)

Toner ring with 90 teeth for the following axle versions:

- S9-3718 / SL9-3718
- Z9-3720 / ZL9-3720
- S11-3720 / SL11-3720
- Z11-3720 / ZL11-3720
- S9-4218 / SL9-4218
- Z9-4218 / ZL9-4218
- S11-4218 / Z11-4218
- S9-4220 / Z9-4220
- S11-4220 / SL11-4220 / SZL 11-4220
- Z11-4220 / ZL11-4220

### 2.3 Installation tool (03 434 3331 00)

SAF toner ring installation tool (Fig. 2)



Fig. 2 · Toner ring installation tool

### 3 Removing the toner ring

1. Chuck and secure the wheel hub in a vise.
2. Place the removal punch on the toner ring. Using a hammer, tap the punch until the toner ring is removed from the wheel hub (Fig. 3).



Fig. 3 · Removing the toner ring

## 4 Installing the toner ring

1. Place the toner ring evenly onto the wheel hub (Fig. 4), making sure that the guide ring on the bottom of the toner ring faces toward the wheel hub. Center the toner ring and press it evenly onto the wheel hub as shown in Fig. 4.



Fig. 4 · Placing toner ring onto wheel hub

2. Place the installation tool (Fig. 2) evenly onto the toner ring as illustrated in Fig. 5.



Fig. 5 · Placing installation tool onto hub

3. Using a hammer, tap the installation tool evenly until the toner ring is installed properly (Fig. 6).



Fig. 6 · Installing toner ring

4. Perform a visual inspection to make sure that the toner ring is properly installed: the top edge of the toner ring must be parallel to the top edge of the wheel hub (Fig. 7).



Fig. 7 · Correctly installed toner ring

## We are always there for you

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