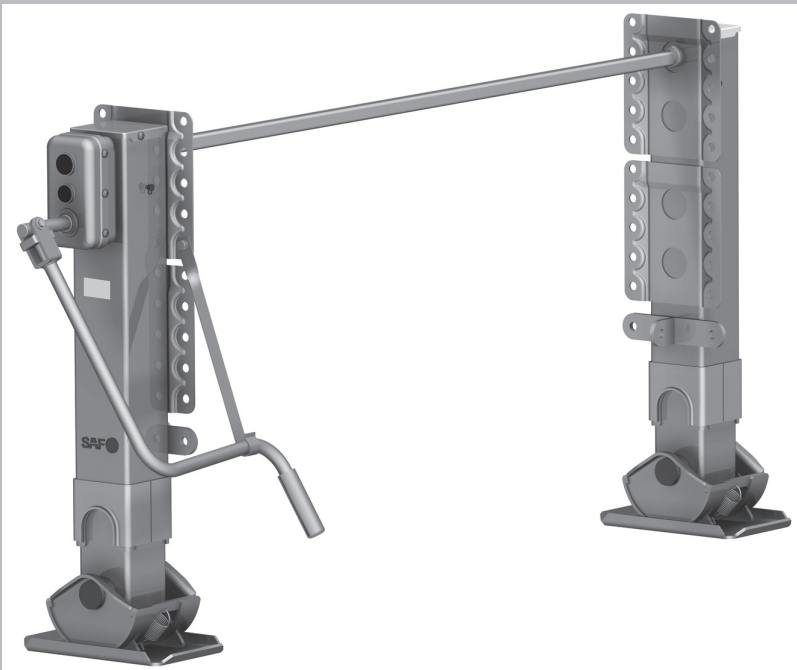


## Operating and maintenance manual

SAF Titan support device

SAF Classic support device



XL-LG11662OM-en-DE

Translation of the original operating and  
maintenance manual

## Dear customer,

This operating manual helps you to familiarise yourself with the SAF-HOLLAND product and use it for its proper use.

The operating manual contains important instructions on how to operate the product safely, properly and economically.

Adherence to it helps prevent hazards, faults and reduce down times and increase the reliability and service life of the product. Read the **operating manual** attentively before commissioning and follow the instructions carefully.

You must ensure that all personnel with responsibility for performing tasks on the vehicle can view the operating manual at all times.

The operating manual must be kept in the glove compartment in the driver's cabin of the towing vehicle at all times.

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SAF-HOLLAND GmbH

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63856 Bessenbach, Germany

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## Component Part Identification and Specifications

### Component designation

SAF Titan / SAF Classic support device

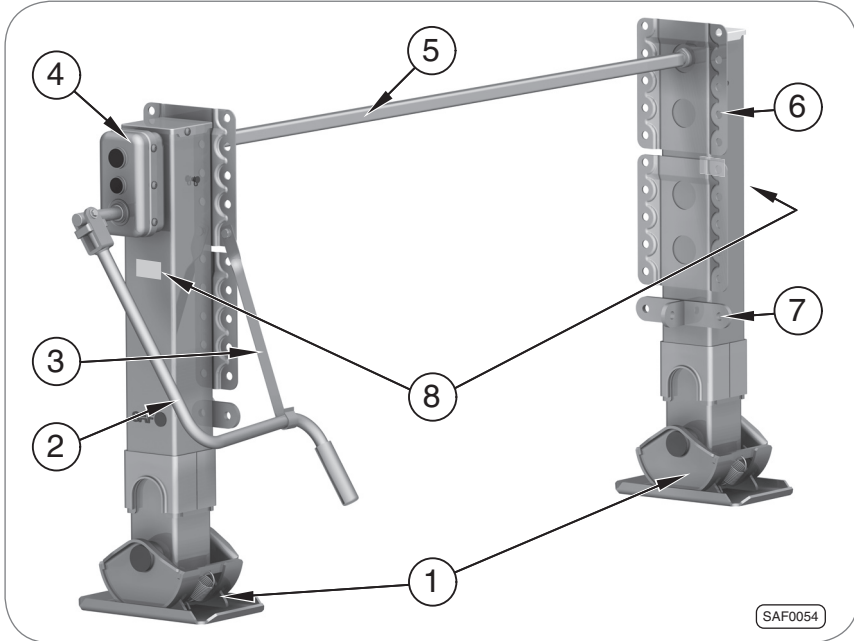


Fig. 1 - Partial overview<sup>\*)</sup>

- 1 Compensating foot<sup>\*)</sup>
- 2 Crank handle
- 3 Crank holder
- 4 Gear unit<sup>\*)</sup>

- 5 Connecting shaft
- 6 Screw-on plate
- 7 Holder for bracing
- 8 Type plate

<sup>\*)</sup> different on the SAF Classic

Deutsch

English

Français

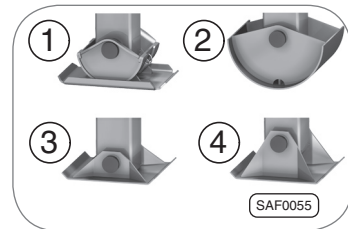
Italiano

Español

Русский

**SAF Titan accessories**

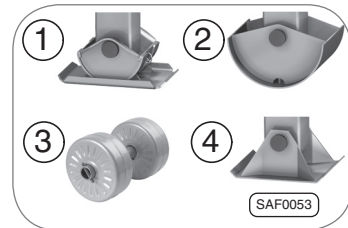
- 1 Compensating foot
- 2 Rocking foot
- 3 Sand shoe, low
- 4 Sand shoe, high



**Fig. 2** · SAF Titan accessories

**SAF Classic accessories**

- 1 Compensating foot
- 2 Rocking foot
- 3 Wheel
- 4 Sand shoe, high



**Fig. 3** · SAF Classic accessories

**Technical data**

	SAF Titan	SAF Classic
Lifting capacity	25,000 kg	24,000 kg
Static proof load	55,000 kg	72,000 kg
Static load with wheel	--	35,000 kg
Lift per crank turn		
High gear	14.8 mm	6 mm
Low gear	0.7 mm	0.7 mm



## Product data

### Identification of the model

Please have the exact type designation of the product handy when ordering spare parts.

The type plate (fig. 4) is situated underneath the gear unit (fig. 4, item 1.).

The 11-digit number (serial No.) can be found on the type plate (fig. 4).

SAF-HOLLAND GMBH D-63856 BESENBACH · GERMANY	
Type <b>LGT G 80-47 D</b>	Serial No. <b>20 09 259 0938</b>
Lift Capacity <b>12.500 kg</b>	Load Capacity <b>27.500 kg</b>
Made in Germany	AAR rated
 AN 3335528	 SN 20 09 259 0938

SAF0061

Fig. 4 · Type plate

You can enter the data for ordering original spare parts from SAF-HOLLAND in the following field.

Type	Serial No.

### Position of the type plate

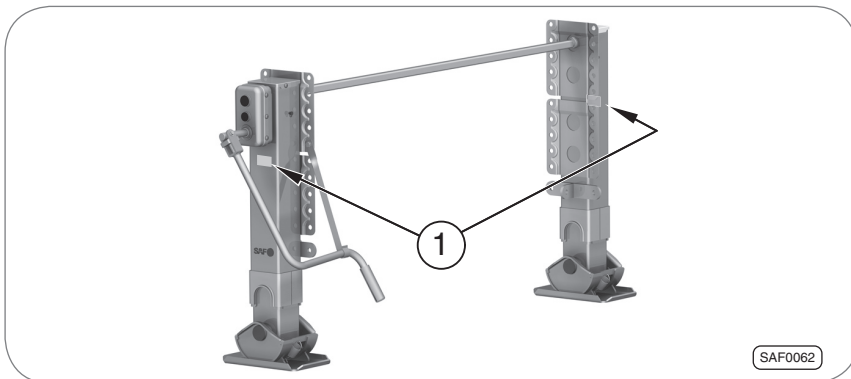


Fig. 5 · Position of the type plate

## Ordering spare parts

When ordering original spare parts from SAF-HOLLAND, make sure that you pay attention to the assembly groups of the respective product.

Reproduction parts have a negative effect on the function of the product, have a shorter lifetime and cause risks and hazards which SAF-HOLLAND cannot evaluate. They also increase the maintenance requirement.

SAF-HOLLAND has a tight service network of partner companies for technical support for SAF-HOLLAND products and supply of parts (see back page or visit us on the internet at **[www.safholland.com](http://www.safholland.com)**).

For further instructions on identifying spare parts refer to the "After-market" section of our homepage **[www.safholland.com](http://www.safholland.com)**.

Updates are published as necessary on the internet at **[www.safholland.com](http://www.safholland.com)**.

## General

### Liability

SAF-HOLLAND's "General Terms and Conditions" apply.

SAF-HOLLAND does not recognise any liability claims for personal injury or material damage which are caused by one or more of the following causes:

- Improper use of the product (see chapter "Proper use").
- Failure to adhere to the operating manual and the safety instructions contained in it.
- Arbitrary constructional changes to the product.
- Insufficient maintenance of parts which are subject to wear (see chapter "Maintenance").
- Improper maintenance/repair work or maintenance/repair work which is not performed in good time (see chapter "Maintenance").
- The use of any spare parts other than original SAF-HOLLAND parts (see chapter "Ordering spare parts").
- The use of damaged parts.
- Disasters due to external influences or acts of God.

### Warranty and general terms and conditions of business

Refer to the "Sales" section of our home page [www.safholland.com](http://www.safholland.com) for information on our current warranties and general terms and conditions.

### Environmental protection

All components and consumables used for maintenance and care must be disposed of in an environmentally friendly manner.

Recyclable components must be cleaned of oil and lubricants and recycled. When doing so, you must adhere to the disposal instructions for the respective consumables and the valid national and regional regulations.

## Safety

### Target group

The operating manual for the product is restricted exclusively to use of the product by the user and personnel authorised and instructed by the user.

The user must make sure that the personnel authorised by him receive regular instruction on the content of the operating manual and in particular the safety instruction it contains.

### Proper use

The product has been constructed using state-of-the-art technology and in accordance with the recognised rules of technical safety. However, its use may result in hazards for the operator or third parts or damage to the device or other objects of material value.

The SAF Titan / Classic support device is designed for attachment to a vehicle trailer. It must only be introduced into traffic if it is fitted in accordance with the SAF-HOLLAND installation guidelines to an appropriate trailer vehicle which complies with the national regulations (e.g. articulated trailer or central axle trailer).

When fitted to a trailer vehicle, the SAF Titan / Classic support device is designed for the following use:

- Adjusting the trailer vehicle to the coupling height of the towing vehicle for coupling or decoupling.
- Supporting the decoupled trailer vehicle.

Proper use also includes:

- Adherence to the operating manual and implementation of the working steps stipulated in the operating manual.
- Adherence to the performance limits (see type plate) of the product.
- Adherence to all maintenance and care instructions and additional inspections.
- The use original SAF HOLLAND spare parts (see chapter "Ordering spare parts").
- The use of the listed consumables (see chapter "Maintenance" and disposing of them in an environmentally friendly manner (see chapter "Environmental protection").

Operationally safe function can only be guaranteed if all the instructions, settings and performance limits for the product are adhered to.

## Safety instructions and symbols used in the operating manual

The following symbols are used to denote particularly important information and sections of the text. Make sure that they are always read and adhered to before working with the product.



### **Danger!**

This safety instruction with the signal word warns of a possible safety risk or serious and fatal injuries.



### **Caution!**

This safety instruction with the signal word warns of a possible damage to the product.



### **Note**

Denotes special user tips and other particularly useful and important information for efficient work and economical use.

## Conventions used for sections of text

- Conventions for instructions for actions and information in safety instructions
- 1, 2, 3... Conventions used for working steps

## General Safety Instructions

It is imperative to adhere to the following safety instructions for your SAF Titan / Classic in order to comply with operational safety and traffic safety:



### **Danger!**

**Risk of serious traffic accidents which may lead to serious or fatal injuries.**

- The support devices must only be operated if they are in perfect and fully functional condition.
- Check the safety devices regularly to make sure they are fully functional.
- The required personal safety equipment and clothing for operating, maintenance and repair staff must be available and must be used.
- The complete operating manual must be available and in legible condition at the location for use of the product at all times.
- The product must only be operated, maintained and repaired by authorised staff with sufficient qualifications. This personnel must receive regular training on the subjects of occupational safety, environmental protection and the contents of the operating manual, in particular the safety instructions it contains.
- The safety and warning signs attached to the support devices must not be removed and must be kept in legible condition.

## Operation



### Danger!

#### Risk of serious accidents!

- The support device must only be operated if the vehicle or vehicle combination is secured to prevent it rolling away.
- The crank handle must always be fitted.
- The support device must be checked for damage before use. In case of damage the support device must be urgently repaired by an authorised workshop and appropriately trained staff.
- All components which are not in perfect condition must be replaced.

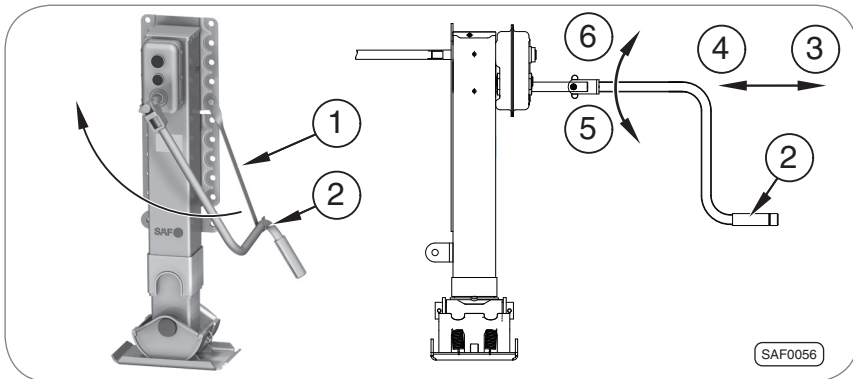


Fig. 6 · Operation of the support device (figure: SAF Titan)

## Crank handle

The crank holder (fig. 6, item 1) is fastened either to the rear plate of the support device or to the vehicle frame (depending on how it is fitted) and is used to mount the crank handle (item 2).



### Caution!

**When attaching the crank handle and during and after a gear change you must make sure it is firmly in place.**

### "Standard" crank handle

The "Standard" crank handle is fastened to the input shaft on the gear unit with an elongated hole and a screw.

### "Comfort" crank handle (speed crank)

The "Comfort" crank handle automatically clicks into place in the horizontal operating position.



#### Caution!

In order to prevent damage to the gear unit the crank handle must click audibly into place in the horizontal position.

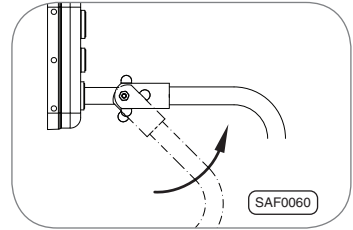


Fig. 7 · Engaging the crank handle

To fold it away, the locking mechanism on the gear unit's input shaft has to be released by pulling it back (item 1)

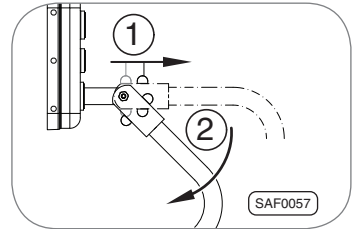


Fig. 8 · Releasing the crank handle

## Gear unit

### High gear

The high gear (see page 12, fig. 6, item 3) is used to bridge the passage between the drive position and the floor.

### Low gear

The low gear (see page 12, fig. 6, item 4) is used to raise and lower the trailer vehicle.

### Gear change

1. Remove the crank handle from the crank holder and fold it out into the horizontal operating position (see page 12, fig 6).
2. Pull or push the crank handle into the desired gear (fig. 6). The gear engages noticeably into place.

## Decoupling and coupling a trailer vehicle



### Danger!

#### Risk of serious accidents!

- When coupling and decoupling the trailer there must be nobody in the danger area.
- There must be nobody underneath the supported trailer vehicle.
- The lifting capacity of the support device must not be exceeded.
- Do not turn the support device beyond the upper and lower limits.
- When loading a parked trailer vehicle use additional supports as usual - risk of toppling!
- Beware of crank handle kick-back when releasing the crank handle.
- When the trailer vehicle is in drive mode, the support device must be fully retracted and the crank handle must be in the crank holder.
- Adhere to the safety instructions for operation of the crank handle (see page 12).

### Decoupling the trailer



### Danger!

#### Risk of serious accidents!

- When supporting it must be possible to move the support feet freely / turn the wheels.
- The support surface for the support foot must be free and flat; the ground must have sufficient strength. If necessary, place a suitable base under the support surface.
- Do not shim the support device, e.g. for height adjustment.
- Ensure freedom of movement.
- The wheel (see page 5, fig. 3, item 3) is not suitable for driving the trailer vehicle.

1. Remove the crank handle from the crank holder and fold it out into the horizontal operating position (see page 15, fig 9).
2. Select high gear or low gear (items 3 and 4) and turn down the support device (item 5).

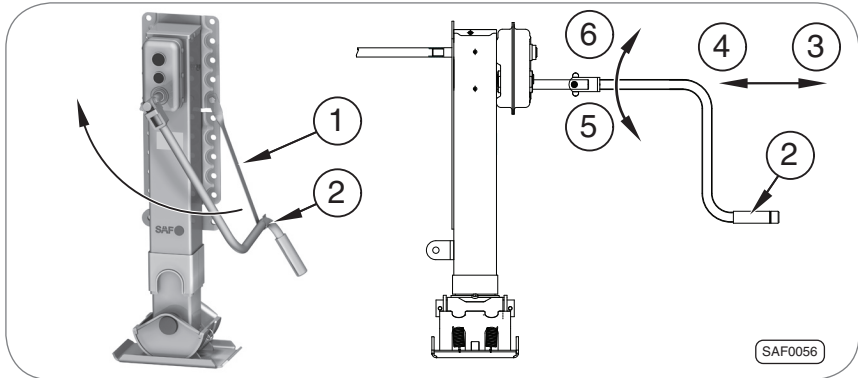


Fig. 9 · Operation of the support device (figure: SAF Titan)



**Danger!**

**Risk of accidents and injuries.**

The support device must stand vertically on the floor.

3. Switch to low gear (item 4) before the support device touches the floor.
4. Turn the support device up to the required height.
5. Put the crank handle in the crank holder.

**Coupling the trailer**

1. Remove the crank handle from the crank holder and fold it out into the horizontal operating position (see page 15, fig 9).
2. Select low gear (item 4) and turn the support device up to the required height (item 6).
3. Couple the trailer vehicle and check the coupling to make sure it has engaged securely.
4. Fully retract the support device.
5. Put the crank handle in the crank holder.

## Maintenance Procedures



### **Danger!**

#### **Risk of serious accidents due to loss of traffic safety and operational safety.**

- Maintenance tasks must only be carried out by authorised specialist workshops and by staff with the appropriate training.
- All components which are not in perfect condition must be replaced.
- Daily inspection of the vehicle for traffic safety before starting the journey is part of the duty of the driver.

SAF-HOLLAND recommends that you carry out the inspections and maintenance tasks described in the chapter "Maintenance". In case of repairs you must always follow the SAF-HOLLAND repair instructions and directions.

### **Before each journey**

1. Carry out a general visual check of the support devices to make sure they are firmly fastened and to check for wear, leaks, corrosion and damage.
2. Remove any coarse soiling before starting the journey in order to prevent damage to the following traffic.
3. The crank handle must be firmly attached in the crank holder when the trailer is in drive mode.

### **Cleaning**

- Any loose stones and coarse soiling must be removed from the support devices immediately.
- Do not wash off any grease on the thrust pipe.



### **Danger!**

#### **Risk of accidents and injuries.**

Loose stones on the support device may soil the highways and put the following traffic at risk.

## Service schedule



### Danger!

**Risk of serious traffic accidents due to the loss of traffic safety and operational safety which may lead to serious or fatal injuries.**

The specified maintenance intervals are reference values. They are the minimum requirements which have to be adhered to. External influences as a result of use or climatic conditions may make it necessary to shorten these intervals.

### Maintenance work on the support device

	before each usage	annually	in case of stiffness of movement
Visual inspection of the support device for cracks and deformation.	x		
Grease the spindle and spindle nut (see page 18). Initially after 3 years.		x	x
Grease the gearbox (see page 18 f)			x
Functional test (see page 19 f)		x	
General safety inspection as per legal regulations.			



### Caution!

In case of stiffness of movement the spindle and spindle nut must be relubricated immediately (see page 18, fig. 10, 11, item A).

## Lubricating the support device

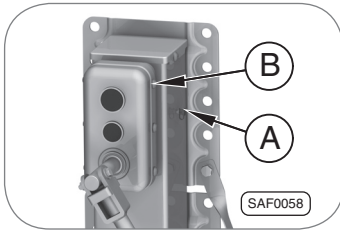


### Caution!

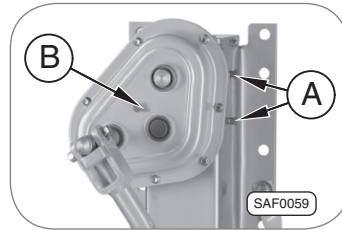
**Risk of damage to the spindle, spindle nut and gear unit.**

- Only use the stipulated lubricant.
- Only lubricate the stipulated lubricating points.

### Lubricating points



**Fig. 10** · SAF Titan lubricating points



**Fig. 11** · SAF Classic lubricating points

A Lubricating point on the spindle and spindle nut

B Lubricating point on the gearbox

### Lubricating the spindle and spindle nut

To lubricate the spindle and spindle nut, use 100 grammes of SAF-HOLLAND XL-LUB-035-10 grease per leg.

## Lubricating the gearbox



### Caution!

Do not open the gear box.

To lubricate the gear unit, use SAF-HOLLAND XB-LUB-035-10 grease.

- **SAF Titan**



### Caution!

- Only remove one screw to lubricate the Titan gearbox.
- After lubricating, tighten the screw with tightening torque of 10 Nm.

The gearbox is lubricated through the upper screw hole on the gearbox (see page 18, fig. 10, item B).

- **SAF Classic**

The gearbox is lubricated through the lubricating nipple on the face (see page 18, fig. 11, item B).

## Functional test

Support devices which are rarely used must be actuated regularly in order to test the function and redistribute the layer of grease over the spindle and spindle nut. To do so, extend and retract the support device.

## Troubleshooting

Problem	Possible cause	Solution
The support cannot be extended / retracted	<ul style="list-style-type: none"> <li>• Spindle faulty</li> <li>• Gear unit faulty</li> <li>• Support tube or inner tube of the support bent</li> </ul>	<ul style="list-style-type: none"> <li>• Replace the leg or gear unit leg<sup>*)</sup></li> <li>• Replace the gear unit leg<sup>*)</sup></li> <li>• Replace the leg or gear unit leg<sup>*)</sup></li> </ul>
The support does not move freely	<ul style="list-style-type: none"> <li>• Too much friction between the spindle and spindle nut.</li> <li>• Support device soiled</li> </ul>	<ul style="list-style-type: none"> <li>• Lubricate the spindle</li> <li>• Clean the support device</li> </ul>
No gear can be selected	Gear unit faulty	Replace the gear unit leg <sup>*)</sup>
The gear unit makes noises but moves freely	The gear unit has an intermediate shaft which may cause noises	No measures necessary
The gear unit does not move freely	The grease has been used up or expelled	Lubricate the gear unit

<sup>\*)</sup> Replacement by an authorised specialist workshop and appropriately qualified staff only.

Deutsch

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## We are there for you

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