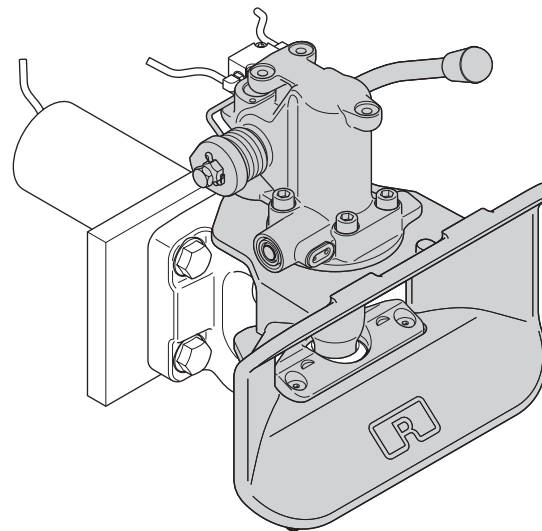


RO★50 BNA



Reparaturanleitung | Repair instructions | Manuel de réparation | Instrukcja naprawy

- Ⓓ Automatischeinheit, Fangmaul
- ⒼⒸ Automatic unit, Funnel
- Ⓕ Unité automatique, Pavillon
- ⒽⒶ Zespół automatyki,
Szczęka wprowadzająca



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Liability

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Emphasis in the text

Legend

In the interests of readability and clarity, different types of information are marked accordingly.

Sentences starting with an arrow contain instructions on how to proceed:

- Always carry out the instructions successively in the order given.

The following information is introduced by a dash:

- lists
- conditions for the subsequently described actions
- descriptions of preceding work steps
- descriptions of statuses

Warnings of hazards and risks

Important text passages which must always be observed are especially emphasised:



HAZARD!

Warns against direct hazards which could lead to serious injury or death.

- Provides instructions for the prevention or avoidance of hazards.

**WARNING!**

Indicates risks which could lead to serious injury or death.

- Requires safety measures to protect the persons concerned.

**CAUTION!**

Indicates risks which could lead to material damage or personal injury (minor injuries).

- Provides instructions for the prevention of damage.

Pictures

As necessary, texts are illustrated with pictures. The reference to a picture is given by a picture number in [square brackets]. Capital letters after a picture number, e.g. [12A], refer to the corresponding item in the picture.

Binding instructions**LUBRICANTS:**

- Lubricants for the previously described activity.

**TIGHTENING TORQUES:**

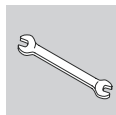
- Tightening torques for the listed bolted connections.

**Additional information**

The information symbol refers to instructions and recommendations as well as additional information.

TOOLS:

- List of the tools required for the subsequently described activities.

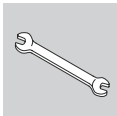


1. Automatic unit

Complete automatic unit

Requirements

- Towing hitch without pressure
- Towing hitch closed

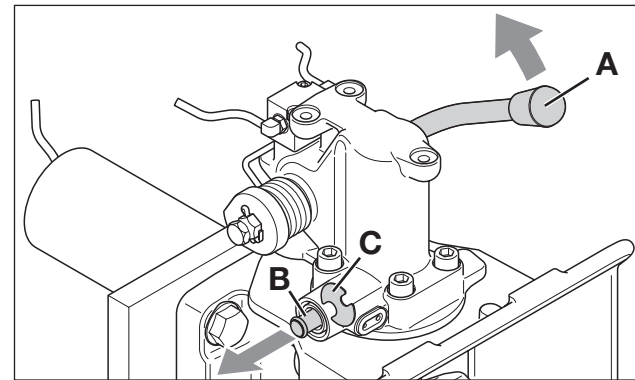


TOOLS:

- Allen key M6
- Allen key M10
- Locking washer for the indicator pin

Dismantling

- Press the hand lever [1A] slightly upwards and hold it in this position
- Pull out the indicator pin [1B] further by hand and arrest it with the locking washer [1C]
- Remove the 2 bolts [2A]
- Remove the valve [2B] with the tubes



- [1] **A** Handhebel
B Anzeigebolzen
C Sicherungsblech; Teile-Nr. R0E65632



CAUTION!

Do not let any dirt get into the valve opening

- Close the opening [2C]
- Remove 4 bolts [2D]
- Pull the automatic unit up and out

Assembly

The assembly is carried out in the reverse order. The following points must be observed in particular:

- Clean the automatic unit thoroughly and grease it in the area of the hole for the coupling pin before assembly
- Note the position of the locking plate [2E]
- Observe the tightening torques
- Check the function of the towing hitch; Section 3



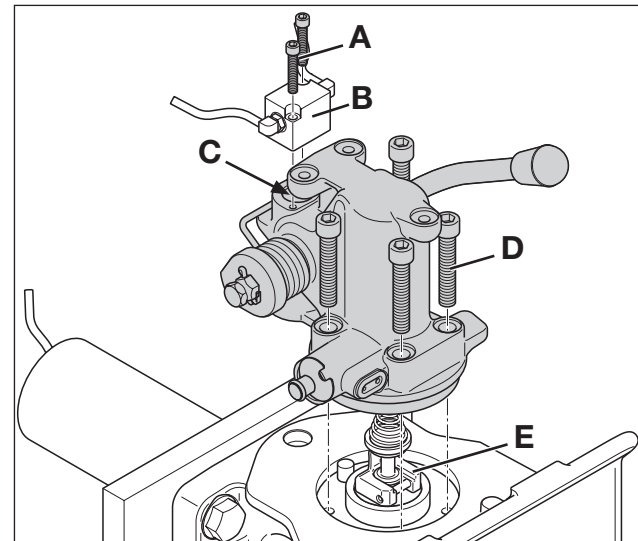
LUBRICANT:

- Special grease ROE96035



TIGHTENING TORQUES:

- pneumatic valve at
the automatic unit: 10 + 2 Nm
- Automatic unit at
the hitch body: 85 + 10 Nm



- [2] **A** Bolts
B Control valve
C Opening for pneumatic valve
D Bolts
E Locking plate

1. Automatic unit

Coupling pin

Requirements

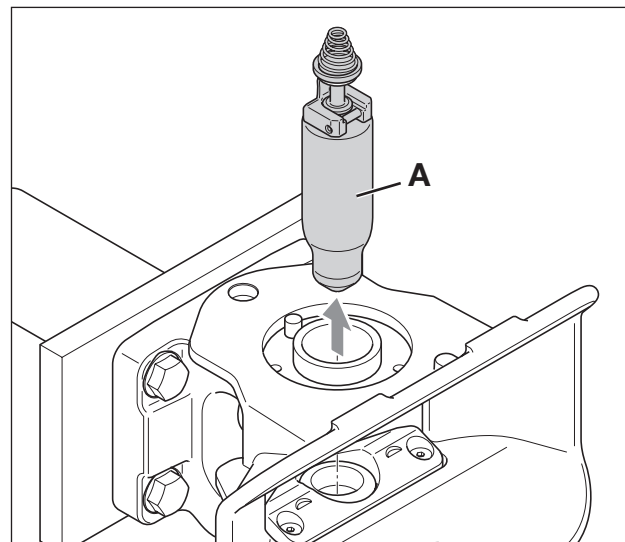
- Automatic unit removed

Dismantling

- Pull the coupling pin [3A] up and out

Assembly

- Thoroughly clean greased parts, unless new parts and grease them:
 - inside of the automatic unit
 - automatic unit in the area of the coupling pin
 - coupling pin
 - guide bush

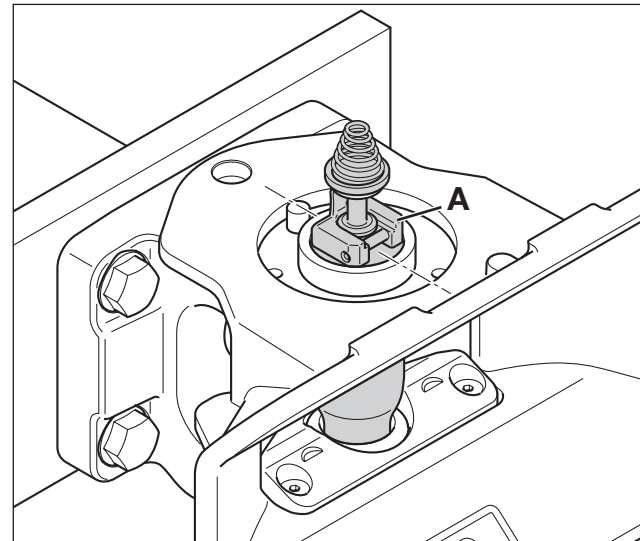


[3] A Coupling pin

- Check the coupling pin for wear before assembly unless it is a new part; Repair instructions RO *50 BNA, Section 5.3, www.jost-world.com
- Make sure the coupling pin and the locking plate [4A] are correctly positioned
- Assemble the complete automatic unit; Page 21

**LUBRICANT:**

- Special grease ROE96035



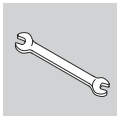
[4] A Assembly position of the coupling pin and the locking plate

2. Funnel

Support ring

Requirements

- Release the system pressure
- Towing hitch closed



TOOLS:

- Allen key M5
- Ring or open-end spanner SW 13

Dismantling

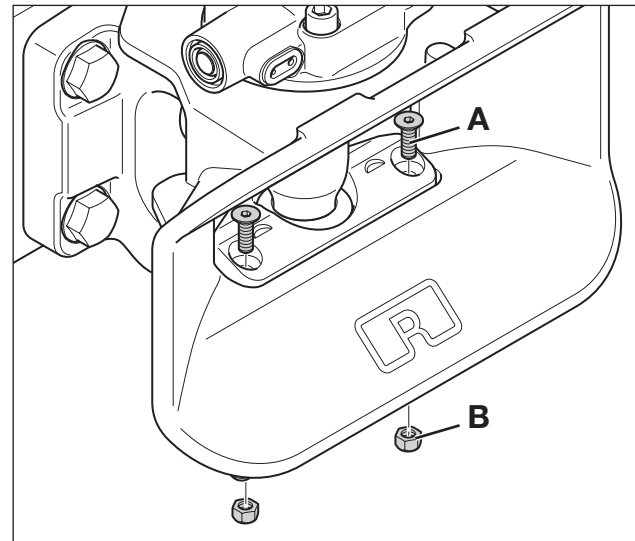
- Release the 2 Allen bolts [5A] and 2 nuts [5B]



WARNING!

Risk of injury, the coupling pin is under high spring tension. When the towing hitch is open, do not put your hand near the coupling pin!

- Press the hand lever [6A] carefully upwards only as far as necessary to remove the support ring [6B]

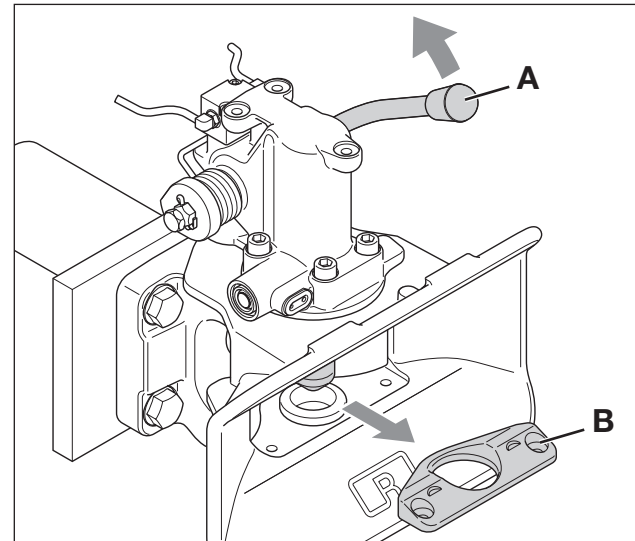


[5] A Allen bolts
B Nuts

Assembly

The assembly is carried out in the reverse order. The following points must be observed in particular:

- Thoroughly clean the mounting surfaces
- Check the support ring for wear before assembly unless it is a new part;
Repair instructions RO*50 BNA,
www.jost-world.com
- Grease the support ring
- Observe the tightening torques
- Check the function of the funnel arrest and return
- Check that the hitch is working smoothly.
As necessary, release the bolts, readjust the support ring and tighten the bolts again
- Check the function of the towing hitch;
Section 3

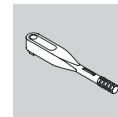


[6] A Handhebel
B Auflagering



LUBRICANT:

- Special grease ROE96062



TIGHTENING TORQUES:

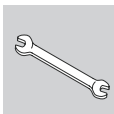
- Support ring to the funnel: 25 + 3 Nm

2. Funnel

Funnel reset

Requirements

- Release the system pressure
- Towing hitch closed



TOOLS:

- Spring hook
- Ring or open-end spanner SW 15



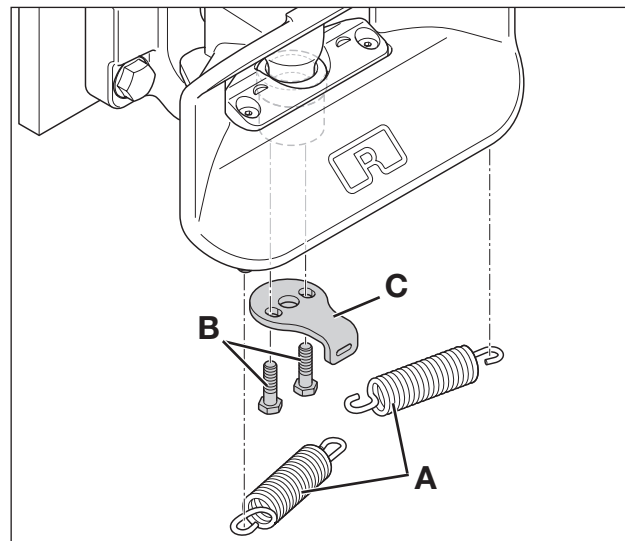
CAUTION!

Risk of injury due to spring tension.

- Wear gloves

Dismantling

- Turn the funnel to the stop to the right/left and remove the respectively released spring [7A]
- Remove the bolts [7B]
- Remove base plate [7C]



- [7] A Springs
- B Bolts
- C Base plate

Assembly

The assembly is carried out in the reverse order. The following points must be observed in particular:

- Clean the mounting surfaces before assembly
- Observe the tightening torques
- When all parts are assembled: Check the function of the towing hitch; Section 3
- Check the function of the funnel centring and arrest



TIGHTENING TORQUES:

- Funnel reset to the lower bush: 85 + 5 Nm

2. Funnel

Funnel

Requirements

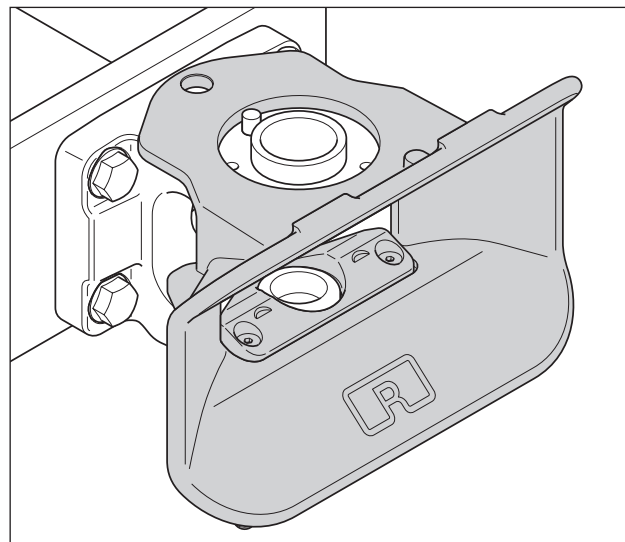
- Automatic unit removed
- Coupling pin removed
- Funnel reset removed

Dismantling

- Remove the funnel [7]
- Remove the plastic sliding plate [8]

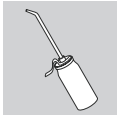
Assembly

- Clean the mounting surfaces thoroughly and grease them with special grease before assembly (supplied)
- Fit the plastic sliding plate [8]
- Fit the funnel [7]

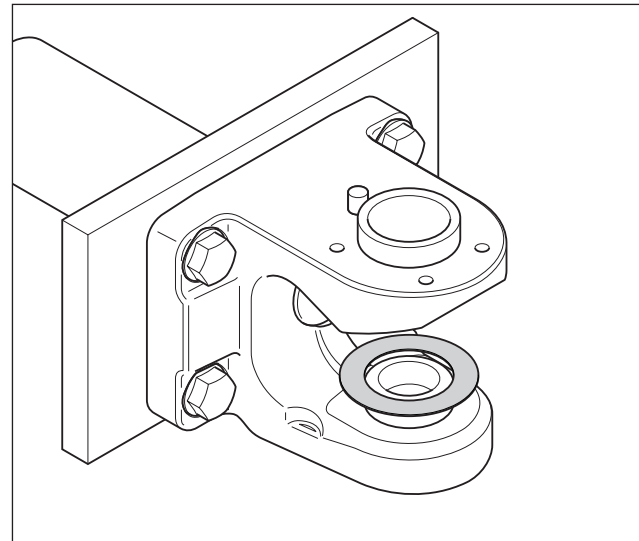


[8] Funnel

- When all parts are assembled:
 - Check the function of the towing hitch;
Section 3
- Check the function of the funnel centring
and arrest

**LUBRICANT:**

- Special grease ROE96042



[9] Plastic sliding plate

2. Funnel

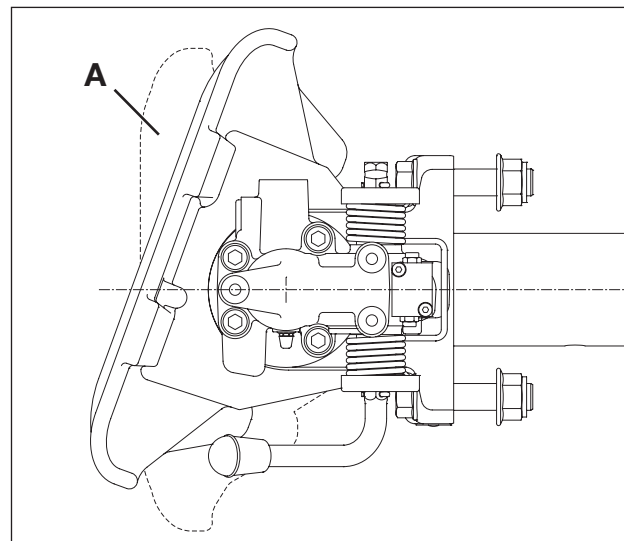
Checking the funnel centring and arrest

Procedure

- Close the towing hitch
- Press the funnel to the side
- Release the funnel
- Open the towing hitch
- Now the funnel should be arrested in the centre position!
- If not, the funnel reset must be re-adjusted at the lower guide bush;
Repair instructions RO * 50 BNA,
www.jost-world.com; Funnel reset

NOTE

For hitching the funnel must be automatically arrested in the centre position!



[10] A Funnel centring

3. Function test

Function test

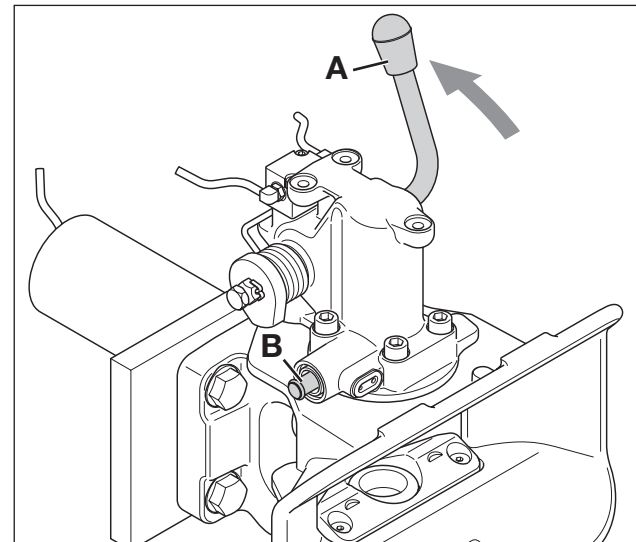
Procedure

- Press the hand lever [11A] upwards until it engages
- The towing hitch is open. The indicator pin [11B] must now be clearly protruding (ca. 17mm)

WARNING!

Risk of injury! The coupling pin and the hand lever are now under spring tension!

- Do not put your hand anywhere near the coupling pin or the hand lever!
- Use a suitable tool to lift the coupling pin in order to trigger the closing mechanism
- The towing hitch is closed. The indicator pin [12A] must not be protruding



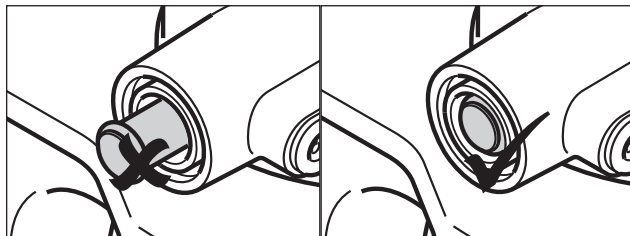
[11] A Hand lever
B Indicator pin



WARNING!

If the indicator pin is still protruding when the towing hitch is closed [11A] it is not permitted to drive with a trailer as there is a risk of accident.

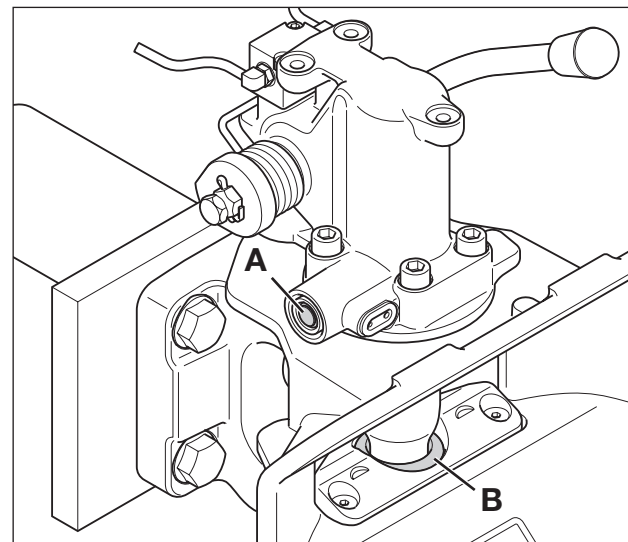
- Clean the lower bush [12B]
- Replace the lock; Repair instructions RO*50 BNA, www.jost-world.com



[12] **A** Wrong

Indicator pin with the towing hitch closed

[12] **B** O.K.



[13] **A** Indicator pin

B Lower bush



Technische Änderungen vorbehalten.
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