RO 50 BNA

Reparaturanleitung | Repair instructions | Manuel de réparation | Instrukcja naprawy

- Automatikeinheit, Fangmaul
- Automatic unit, Funnel
- Unité automatique, Pavillon
- Zespół automatyki, Szczęka wprowadzająca
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**Généralités**

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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

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: . . . . . . . . . . . . .8 ± 1 Nm
- Automatic unit at
  the hitch body: . . . . . . . . . . . . .63 ± 7 Nm

   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
→ 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]
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

LUBRICANT:

- Special grease ROE96062

TIGHTENING TORQUES:

- Support ring to the funnel: 20 ± 2 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]
**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]
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!
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

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

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**Diagram:**

- **A** Indicator pin with the towing hitch closed
- **B** Lower bush

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