

HR 12 **SERVICE-MANUAL**

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Instructions for tilting the cabin

Please use the parts kit no.
6 190 320 000

Due to **danger of accident**, please respect these mounting instructions !!!

▶▶▶ please read them carefully !

1.) Mount 2x hinge 6 1903 200 10 to the upper carriage and the floor frame.

Bolt 2x rubber stop 6 1903 200 13 on the hinges.

2.) Remove the cover at the bottom of the upper carriage.

3.) Remove the stowage box and right armrest

4.) Remove 2x cabin fastening bolt M14 (item 2)

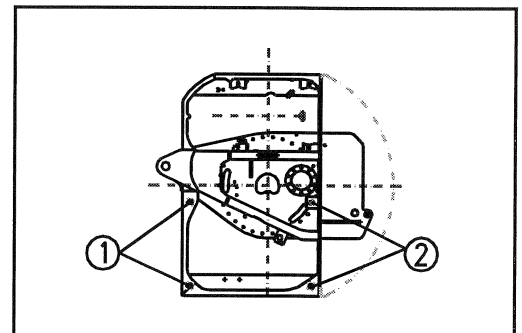
Remove 2x hexagon bolt M14x100 and nut M14 (item 1)

5.) Put 1m steel rope through the lashing points situated on both sides of the dipperstick. The steel rope loops point to the machine.

6.) Fasten a clevis on the right-hand support of the canopy

7.) Attach the cable winch (attach the hook at the cable winch housing to the steel rope loops on the dipperstick and attach the hook at the steel rope of the cable winch to the clevis)

8.) Lift the cabin by means of the cable winch until the rubber stops reach the cabin. Now the safety rod 6 1903 200 15 can be mounted. (Installation at the external cabin bearing)



!! Danger !!

Do not work underneath the tilted cabin as long as the safety rod has not been mounted.

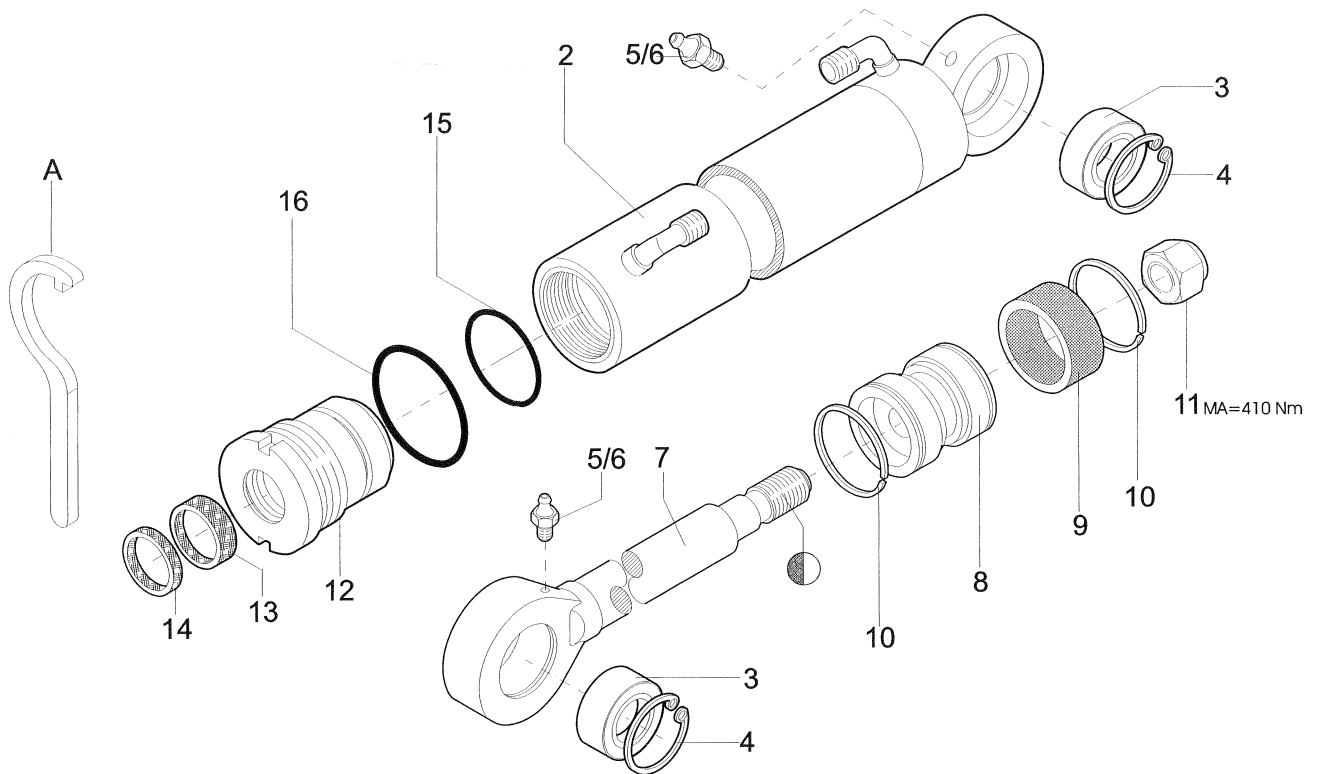
Do not put lateral load on the safety rod while working under the cabin.

9.) Release the cable winch **but do not remove it.**

The cabin is lowered in reverse order.


The locks 6 1900 260 81 which prevent turning on the cabin bearings must possibly be realigned !

HR 12
Dipperstick cylinder
articulated cylinder



(both cylinder sides with end stroke dampening)

- dismount the hydraulic cylinder
- plug the hoses
- clamp the dismantled hydraulic cylinder in a suitable vice in horizontal position
- put an oil collecting receptacle underneath
- unscrew the bushing item 12 by means of a hook wrench item A
- pull the piston rod assembly with piston and bushing out of the cylinder barrel
- clamp the piston rod eye in a suitable vice in horizontal position
- stabilize the piston rod at the piston by means of a square timber
- slacken the nut item 11 (nut is secured with Loctite, warm up to 200° C if necessary)
- extract the piston item 8 with seal item 9
- remove the bushing item 12 from the piston rod

 SCHAEFF	Typ/Model/Type Setting and repair instructions HR 12	Datum/Edition/Date 02.2001
	Benennung/Description/Dén Seal working cylinder	Blatt/Page/Feuille 11.74.01

- check the segment type S, item 10
- check the piston rod for damage, replace if necessary
- check both bearings, item 3, for wear and tear, replace if necessary
- remove the old seals

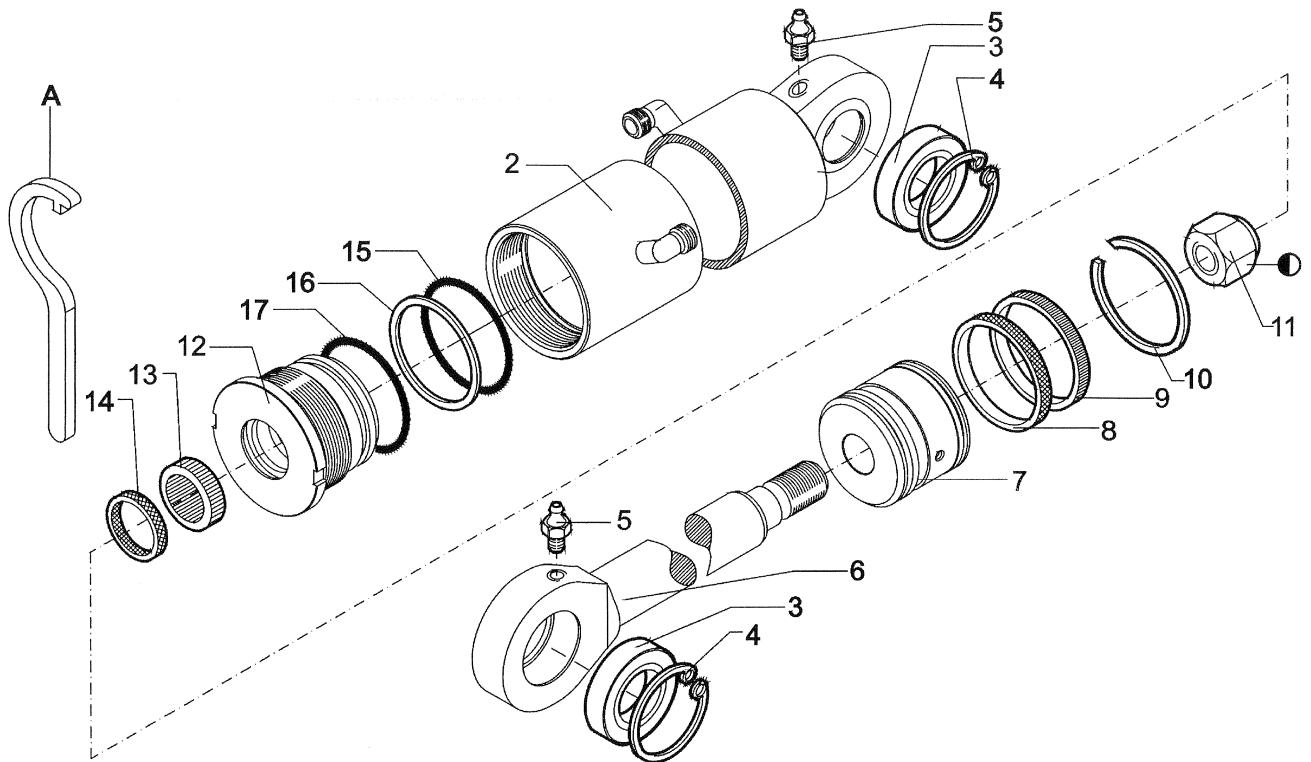
Attention:

- do not damage the seal surfaces of the bushing and piston when removing the old seals
- replace all seals and rub with oil

Carry out the assembly in reverse order


- clean the piston rod thread (free from grease)
- screw the new nut (free from grease) item 11 onto the piston rod with Loctite 270.
Tightening torque of nut: 410 Nm
- check the inside of the cylinder barrel for scratches, damage, bulges, etc.
- insert the piston rod into the cylinder barrel
- grease the thread of the bushing
- screw the bushing in the cylinder barrel
Tightening torque: see chapter 1
- mount the cylinder, connect it and move it carefully and slowly to end stroke (on both sides)

HR 12
Boom cylinder



(one cylinder side with end stroke dampening)

- dismount the hydraulic cylinder
- plug the hoses
- clamp the dismantled hydraulic cylinder in a suitable vice in horizontal position
- put an oil collecting receptacle underneath
- unscrew the bushing item 12 by means of a hook wrench item A
- pull the piston rod assembly with piston and bushing out of the cylinder barrel
- clamp the piston rod eye in a suitable vice in horizontal position
- stabilize the piston rod at the piston by means of a square timber
- slacken the nut item 11 (nut is secured with Loctite, warm up to 200° C if necessary)
- extract the piston item 7 with seal item 8
- remove the bushing item 12 from the piston rod
- replace all seals

 SCHAEFF	Typ/Model/Type Setting and repair instructions HR 12	Datum/Edition/Date 02.2001
	Benennung/Description/Dén Seal working cylinder	Blatt/Page/Feuille 11.74.02

- check the segment type S item 10
- check the piston rod for damage, replace if necessary
- check both bearings, item 3, for wear and tear, replace if necessary
- remove the old seals

Attention:

- do not damage the seal surfaces of the bushing and piston when removing the old seals
- replace all seals and rub with oil

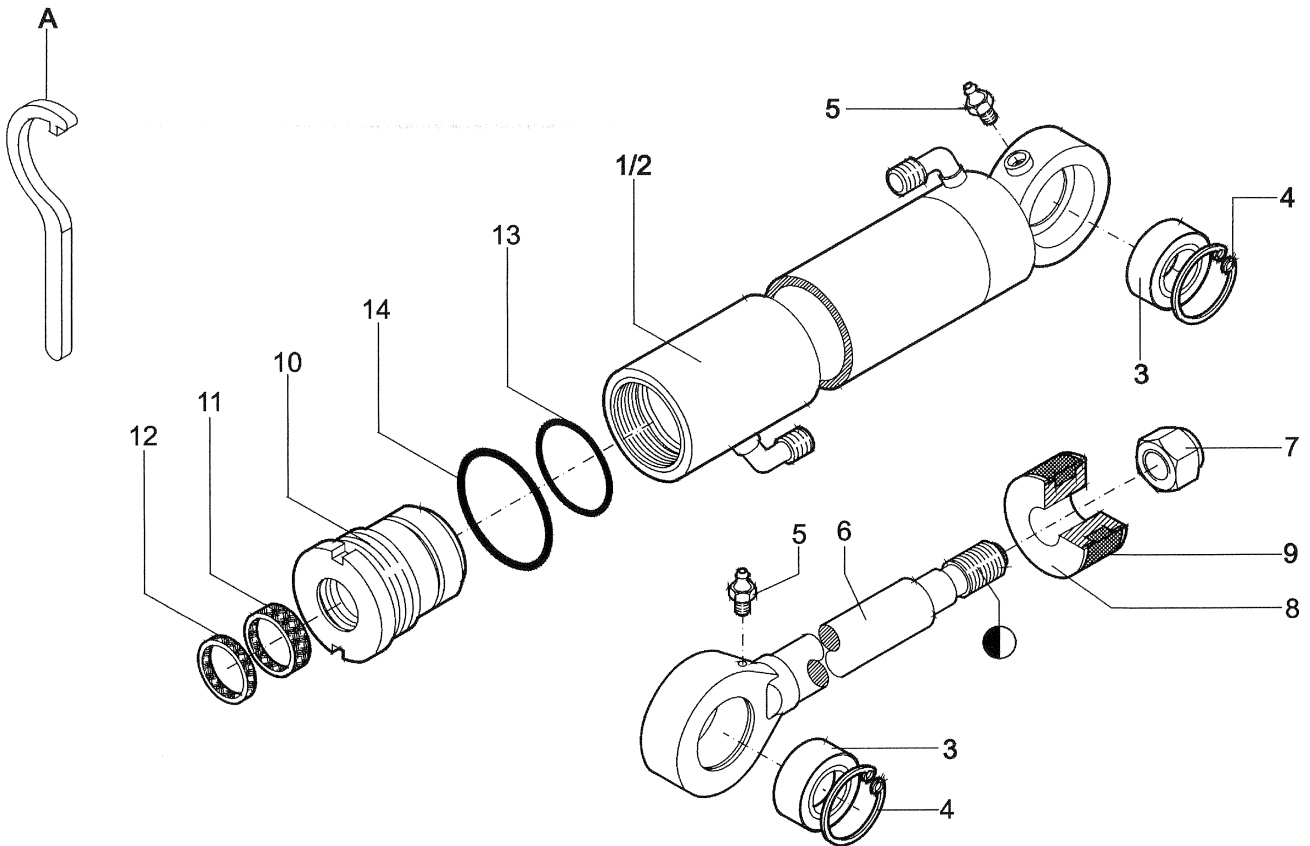
Carry out the assembly in reverse order

- clean the piston rod thread (free from grease)
- secure the new nut (free from grease) item 11 with Loctite 270

Tightening torque of nut: 450 Nm


- insert the piston rod into the cylinder barrel

**HR 12
Bucket cylinder**



(without end stroke dampening)

- dismount the hydraulic cylinder
- plug the hoses
- clamp the dismantled hydraulic cylinder in a suitable vice in horizontal position
- put an oil collecting receptacle underneath
- unscrew the bushing item 10 by means of a hook wrench item A
- pull the piston rod assembly with piston and bushing out of the cylinder barrel
- clamp the piston rod eye in a suitable vice in horizontal position
- stabilize the piston rod at the piston by means of a square timber
- slacken the nut item 7 (nut is secured with Loctite, warm up to 200° C if necessary)
- extract the piston item 8 with seal item 9
- remove the bushing item 10 from the piston rod

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	Benennung/Description/Dén Seal working cylinder	Blatt/Page/Feuille 11.74.03

- check the piston rod for damage, replace if necessary
- check both bearings, item 3, for wear and tear, replace if necessary
- remove the old seals

Attention:

- do not damage the seal surfaces of the bushing and piston when removing the old seals
- replace all seals and rub with oil

Carry out the assembly in reverse order

- clean the piston rod thread (free from grease)
- screw the new nut (free from grease) item 7 onto the piston rod, secure with Loctite 270.
Tightening torque of nut: 410 Nm
- check the inside of the cylinder barrel for scratches, damage, bulges, etc.
- insert the piston rod into the cylinder barrel
- grease the thread of the bushing
- screw the bushing in the cylinder barrel
Tightening torque: see chapter 1
- mount the cylinder, connect it and move it carefully and slowly to end stroke (on both sides)

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