

Repair Solution Freehander

Product can be repaired while mounted on the wall

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Repair Solution Freehander: Preparation



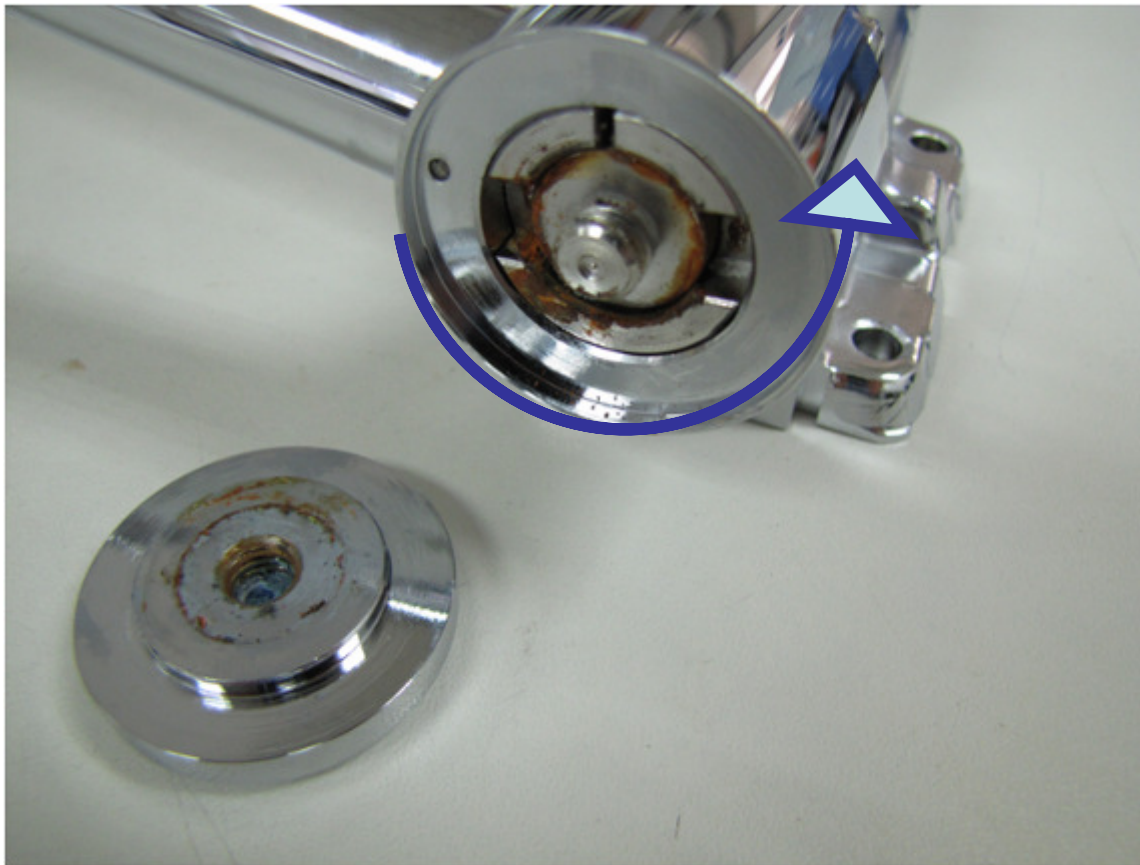
Please refer to the following instructions to repair a seized/stiff Freehander.
The repair solution is not applicable for Freehander with broken arms.
Only in case of broken Freehander arms, the whole product must be replaced.

For the repair solution you need the following material and tools:

- repair kit 115935
- adaptor key ½ " (sent by Corporate Quality)
- calliper (for dismounting the cap)
- lever drill ½ "
- alcoholic cleaner
- torque driver to adjust the new sleeve
- Loctite 243 (blue) screw glue
- towel
- hammer
- small screw driver

Repair Solution Freehander: Disassembly

Step 1: Carefully demount the cap (attention, cap is glued and hard to loose)
If cap cannot be demounted by hand, use a calliper to demount
(use a towel to protect the cap)



Repair Solution Freehander: Disassembly

Step 2: Loosening the sleeve (with adaptor)



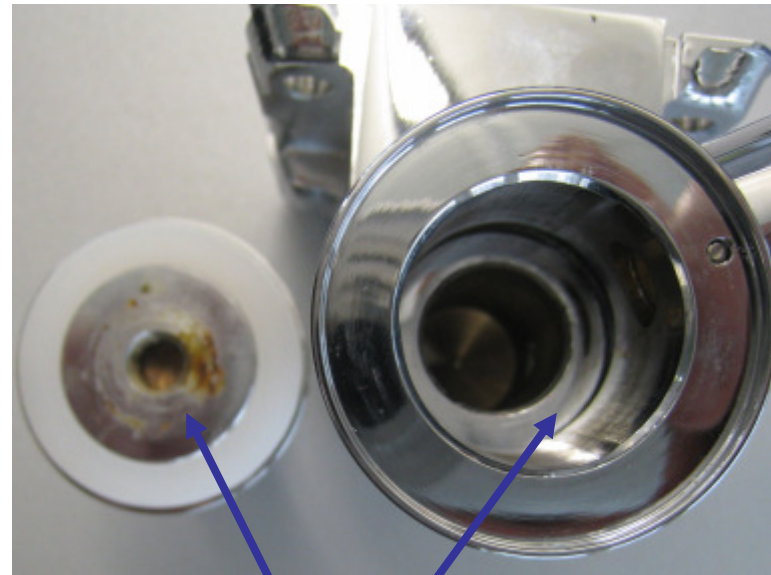
Repair Solution Freehander: Disassembly

Step 3: Drive out the locking pin (use a hammer and a small screw driver)



Repair Solution Freehander: Disassembly

Step 4: Remount the cap and remove the braking parts sleeve and bolt



Clean the cap from grease and deposits with alcoholic cleaner

Repair Solution Freehander: Re-Assembly

Step 5: Re-Assembly with new components

5.1 Grease the contact surfaces of sleeve and bolt as well as the front side of the bolt with ca. 1,5 g Molykote Type TP 42 (included in repair kit)



5.2 Insert new bolt and fix it with locking pin



5.3 Insert sleeve into the arm, slightly twist the sleeve to insert it easily. Put the arm over the bolt



Repair Solution Freehander: Re-Assembly

Step 6: Tighten the sleeve with 35-40 NM

The tightening torque is very important for correct function of the product



Tightening Torque
35-40 Nm
Ca. 20 °

Repair Solution Freehander: Re-Assembly

Step 7: Remount the cap, use some glue to fix the cap

