Repair works only by skilled staff!

1. Changing the automatic unit and the coupling pin

Attention: The hand lever axle (10) should not be dismounted!
- Open coupling with the hand lever (9)

Attention! Do not reach into the jaw!
THIS INVOLVES RISK OF AN ACCIDENT!
- Loosen 4 hexagonal bolts (2)
- Remove automatic unit (3) in upwards direction
- Gently press automatic unit (3) with coupling pin (4) onto work bench (coupling pin 4 will fall out)

When replacing the coupling pin, the safety lock must be replaced, too. (see below)
- Remove old grease out of the automatic unit
- Insert new coupling pin into the body (upper bush 5)
  Attention: The coupling pin should be withdrawn to the side of the safety lock (1)
- Before mounting automatic unit, push jaw stop bolt (3a) in direction of bore (6)
- Place automatic unit (3) lifting hand lever (9) slightly in the process and guiding throw-up lever (3b) into groove of coupling pin underneath retaining pin (4a) to enable coupling bolt to be raised from throw up lever and push jaw stop device into bore (6)
- Secure automatic unit (3) gently with screws (2)
- Press hand lever (9) gently upwards: check safety for fouling (1)
- Secure automatic unit (3) with screws (2):
  Tightening torque 49 Nm
  Use screws M10 x 60 DIN 912, grade 8.8!
- Lubricate via a lubrication nipple on the automatic unit only when coupling open (coupling pin in up position, ca. 120 g NLGI 2)

2. Changing the safety lock

- Safety shackle (7) is to be bent up and withdrawn
- Safety lock (4) should completely be extracted out of the housing
- The new safety lock (1) is to be inserted
- Insert the new wire bar (7)
- Wire ends of the safety shackle are to be bent over

Check:
- Press hand lever (9) gently upwards: check safety for fouling (1)

3. Changing the hand lever

- Remove circlip (8) with circlip pliers A1 from hand lever axle (10)
- Dismantle hand lever (9)
- Fit new hand lever
- Secure new circlip with circlip pliers A1
  (do not overstretch circlip)

The vital connection
4. Switching the hand lever over to left
(repairset 71079)
- Remove circlip (8) with circlip pliers A1 from hand lever shaft (10)
- Dismantle hand lever (9)
- Remove circlip (11) with circlip pliers A1
- Insert new circlip (18 x 1,5) into the groove (12)
- Clamp bearing washers (13) with suitable assembling tool (see illustr.) on left and right
- Knock hand lever axle (10) through carefully
- Dismount spacer (D)
- Remove circlip (14) with circlip pliers A1
- Insert new circlip (18 x 1,5) inside position
- Push hand lever into position
- Secure new circlip (18 x 1,5) circlip pliers A1: (take care to ensure interference fit)

5. Changing the support ring
- Close coupling: otherwise risk of accident!
  - Raise coupling pin with suitable tool or
  - Strike hand lever knob briefly in opening direction with heel of hand
- Remove the support ring (15) with the help of the chisel which is to be placed on the lateral recesses
- Lift coupling pin with hand lever
- Take out support ring
- Clean support ring surface and groove
- Fit new support ring (with position marking 16 facing forwards)
- Both slot pins in the support ring (15) must be knocked into laterally

6. Changing the jaw
- Close coupling (see point 5)
- Loosen 3 screws (17) on base plate (18)
- Remove bottom part with guide bush (19), spring (20) and washer (21) or transmitter disk (21a) for turn-angle alarm system
- Raise coupling bolt with hand lever and lift out jaw (22)
- Insert new jaw (support ring 22a is mounted in the jaw)
- Upward and downward support wear are to be greased
- Proceed with assembly in reserve sequence (pay attention to bore alignment; insert transmitter disk 21a in correct position)
  When inserting screws, jaw must be located in central position: Spring surrounds retaining pin (M) on jaw
- Opening coupling: Jaw lock should be inserted
- Tighten screws (17) when the jaw is in the central position: Tightening torque 30 Nm
- Please, check the lock and movement of the jaw

7. Changing the lower or and the upper bush
- Dismantle coupling from crossbar
- Disassemble automatic unit with coupling bolt, jaw and support ring
- Squeeze lower bush (23) or upper bush (24)
- Press in new lower bush facing right direction (bush grooves A are to be parallel to the couplings central axle) or/and press in new upper bush
- Re-assemble and mount coupling, check function
RO+400: Replacement of the bearing parts (Repair set) see mounting p. 1226