

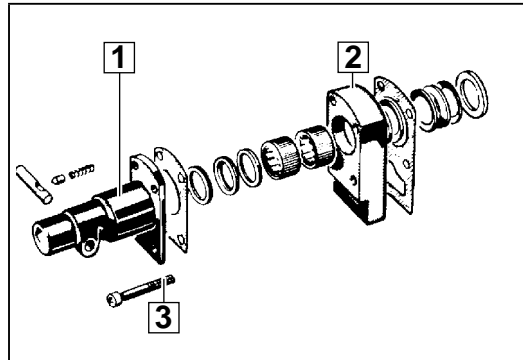
Опубликовано на сайте [www.rem-5.ru](http://www.rem-5.ru)

<b>Special Tools Required</b>	■ Pressing-in tool	276 8000
	■ Assembly tip	283 5000
	■ Assembly cone	283 1000 (PH 350 (D)/ PH (D) 38)
	■ Assembly cone	283 1100 (PH 240 D/ PHD 26)
	■ Assembly and disassembly sleeve	283 4600

- Important!**
- Before beginning the maintenance work, perform an initial check with a high voltage test according to VDE (see chapter Electrical and Mechanical Test Instructions).
  - Before all repair work, pull the power plug from the socket!

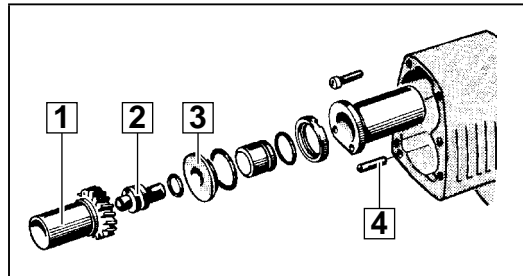
## Disassembly

- Dismantling the nosepiece**
- 1 Fix the machine vertically in a holding device.
  - 2 Loosen the Allan screws (3) and remove the nosepiece (1).
  - 3 Remove the disk springs and the two washers.
  - 4 Remove the bearing end plate (2). If necessary, hit it lightly with a plastic hammer.



**1**

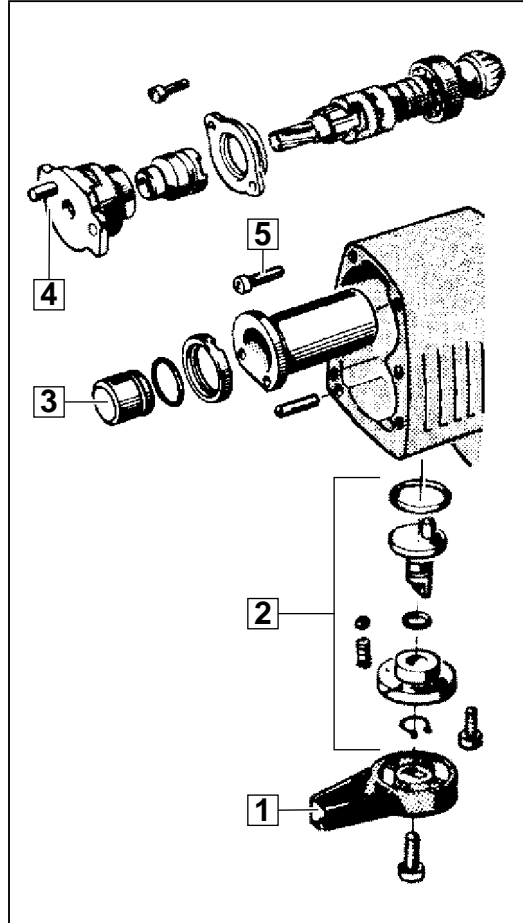
- Dismantling the intermediate gear**
- 1 Remove the washer (3) as well as the O-ring.
  - 2 To expel the snap die (2) lightly hit the housing with a plastic hammer.
  - 3 Remove the intermediate gear (1) together with the disk.
  - 4 Remove the pins (4).



**2**

**Dismantling the cylinder sleeve**

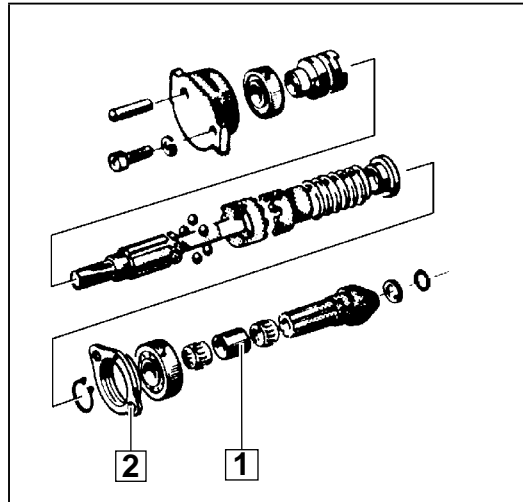
- 1** Remove the pillow block (4) of the reduction gear shaft as well as the sleeve.
- 2** Only applicable for "D"-models: Completely remove the switch lever (1) and the selector shaft (2). Disassemble the selector shaft.
- 3** Loosen the Allan screws (5). Lightly hit the gear case with a plastic hammer. Remove the cylinder sleeve together with the percussion body (3). Pull the percussion body from the cylinder sleeve.



**3**

**Dismantling the reduction gear shaft**

- 1** Remove the screws and completely remove the reduction gear shaft together with the coupling, the distance sleeve (1) and the holding ring (2).
- 2** Press the locking ring from the reduction gear shaft with aid of a special tool and dismantle the reduction gear shaft.



**4**

**Dismantling the motor**

- 1** Remove the brush holders (1) from the machine. Remove the screw of the retaining clip (8). Remove the retaining clip and the carbon brushes.

---

- 2** Remove the gear case from the motor housing.

---

- 3** Remove the complete motor from the armature (4). Remove the gear.

---

- 4** Expel the armature (4) from the gear case with aid of a plastic hammer.

---

- 5** Remove the screws and the cover (6) with the gasket. Lever off the piston together with the connecting rod (5).

---

- 6** Unscrew the eccentric wheel shaft (7) and hit it until it comes free. If necessary, use a plastic hammer.

---

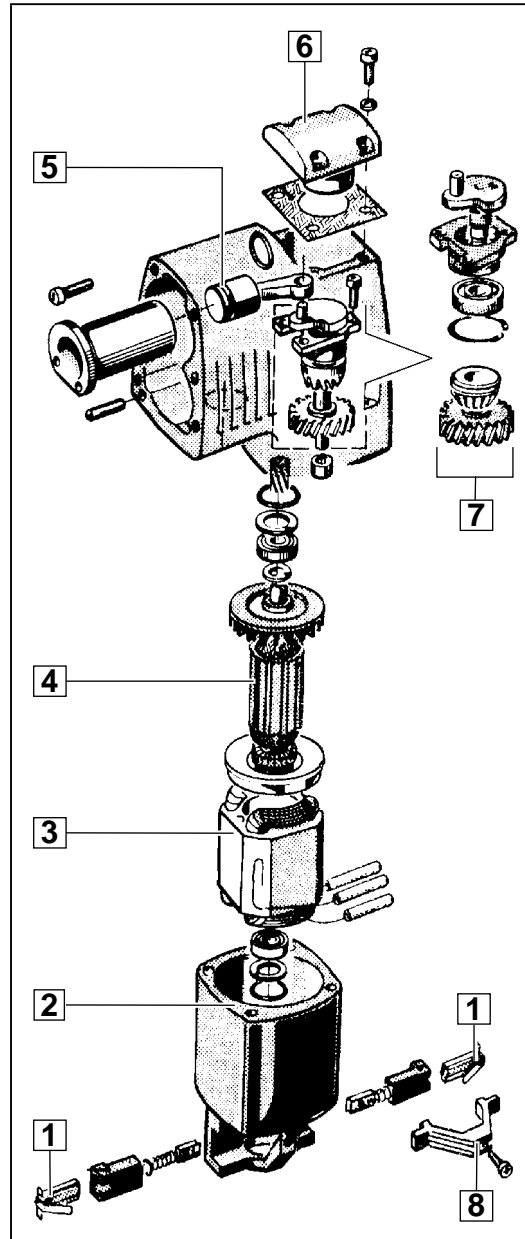
- 7** Separate the eccentric, the bearing, the ball bearing, the locking ring, and the pinion from the eccentric wheel shaft (7) by pressing.

---

- 8** Lever off the air conduction ring (2).

---

- 9** Lightly hit the electric field (3) to remove it.



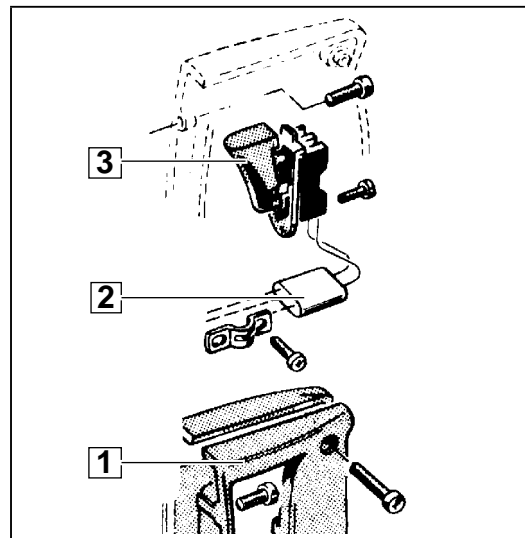
**5**

**Dismantling the On/Off switch**

- 1** Unscrew and dismantle the pair of handle shells (1).

---

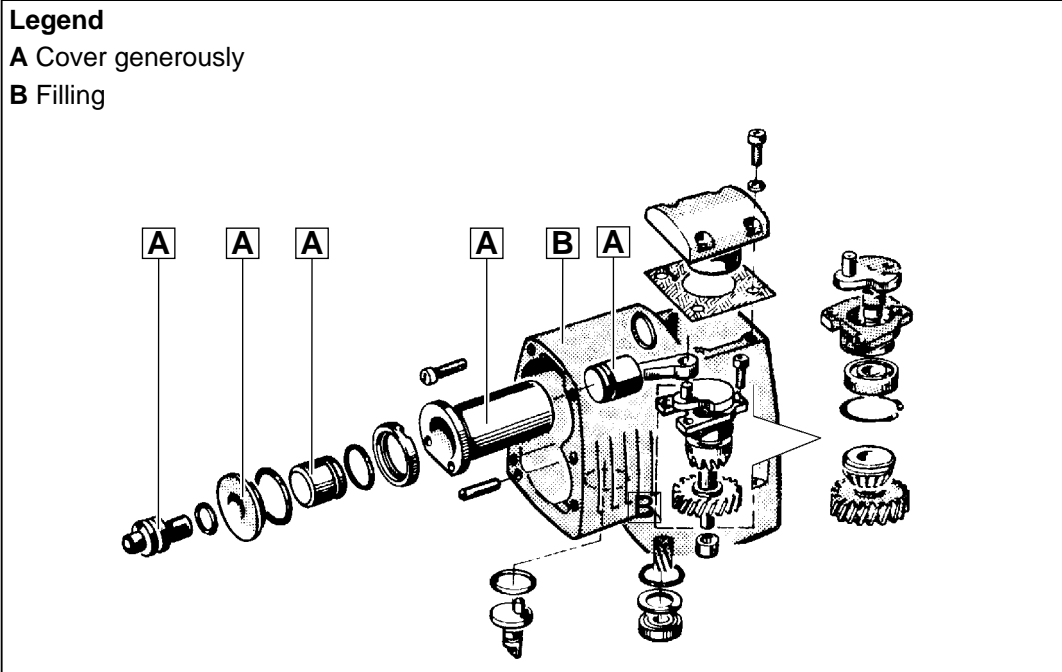
- 2** Unscrew and dismantle the switch (3), the capacitor (2), and other electric parts.



**6**

**Maintenance**

<b>General</b>	It is recommended to regularly submit the tool to maintenance, or as soon as the hammer mechanism gets weak, or when the carbon brushes switch off. When carrying out maintenance all parts of the maintenance set must be exchanged. Use the respective maintenance set provided for each machine.
<b>Cleaning</b>	Clean all parts – with the exception of the electrical parts – with cold cleaning agent. <b>Caution!</b> No cleaning agent should penetrate into the bearing. Clean the electrical parts with a dry brush.
<b>Check for wear</b>	Check the disassembled parts for wear (visual inspection) and replace worn parts.
<b>Electrical tests</b>	Before reassembling, perform an electrical test on all relevant parts (see chapter Electrical and Mechanical Test Instructions).
<b>Lubrication</b>	Each time maintenance is performed, the machine is to be lubricated as stated in the lubrication plan. After the machine is fully disassembled, completely remove the old grease and replace with new grease. The grease must be applied to the machine as indicated in the lubrication plan.

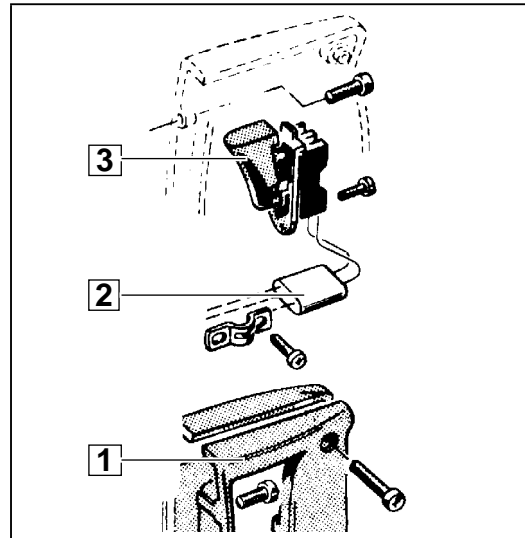


<b>Torques</b>	Screws M 4	3 Nm
	Screws M 5	6 Nm

### Assembly

#### Assembling the On/Off switch

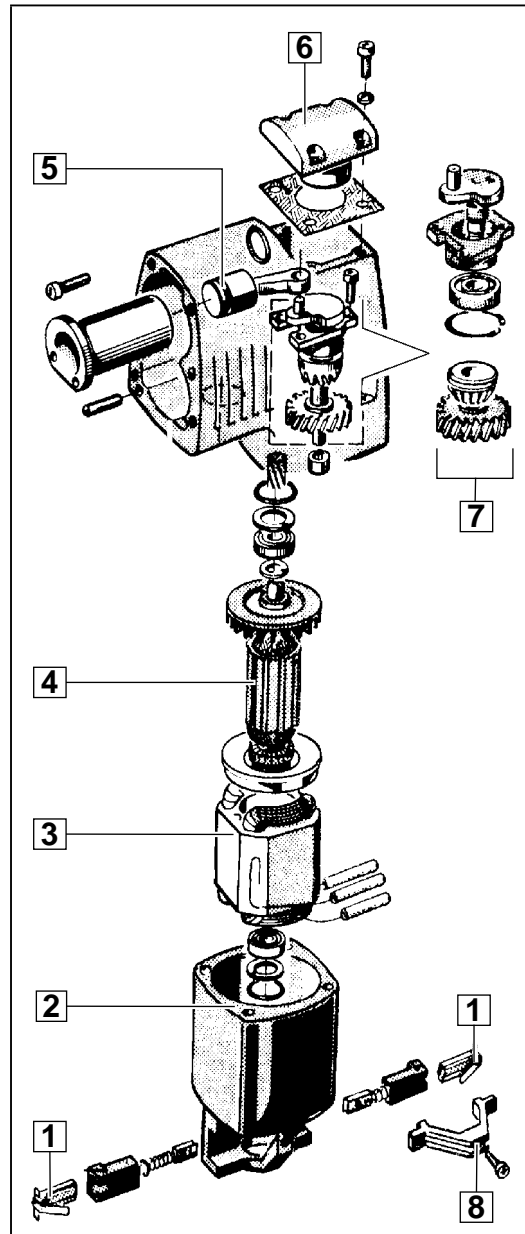
- 1 Fix the switch (3), the capacitor (2), and the other electric parts with screws.
- 2 Mount the pair of handle shells (1).



1

#### Mounting the motor

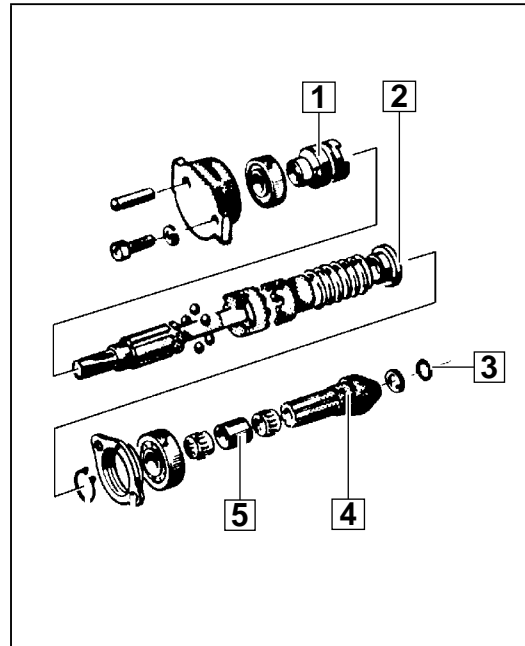
- 1 Insert the electric field (3) into the motor housing (mind the right position!).
- 2 Insert the air conduction ring (2) and let it engage.
- 3 Press on the eccentric, the bearing, the ball bearing, the locking ring, and the pinion (flush) with aid of a press and a forcing disk.
- 4 Press the eccentric (7) in the gear box and secure it with screws (the screws must be covered with securing device). Insert the sealing ring.
- 5 Half insert the piston (5) into the cylinder, and insert the cylinder into the gear case. At the same time hang up the connecting rod in the eccentric wheel shaft. Secure the cover (6) with screws.
- 6 Insert the armature (4) into the gear case. If necessary, hit it lightly with a plastic hammer.
- 7 Insert the gear case together with the armature into the motor housing.
- 8 Fix the gear case to the motor housing with screws. Fasten the screws diagonally.
- 9 Re-assemble the pair of carbon brushes, the retaining clip (8), and the carbon brush holders (1).



2

**Mounting the reduction gear shaft**

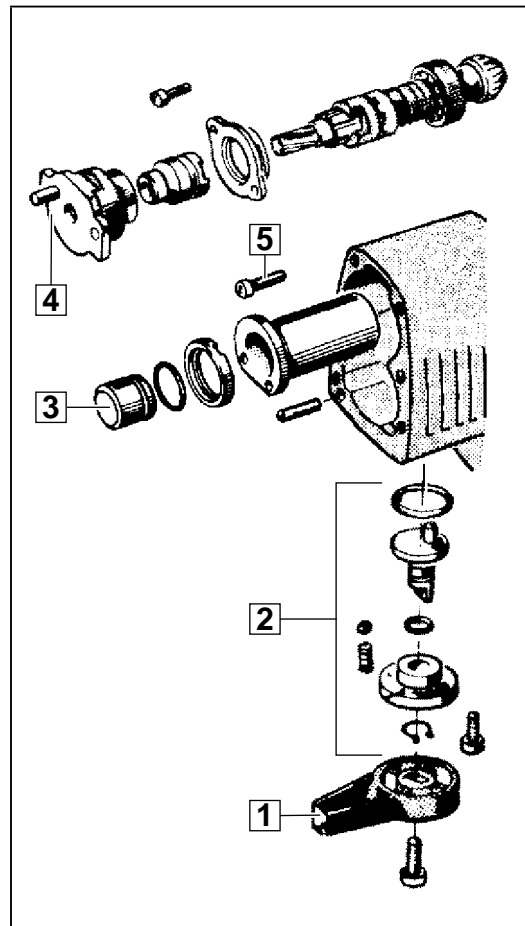
- 1** Press the ball bearing on the reduction gear shaft (4) and secure it with the locking ring.
- 2** Press the distance sleeve (5), the two needle bearings, the spring plate (2), the spring, the coupling sleeve, and the coupling on the reduction gear shaft.
- 3** Mount the reduction gear shaft, the balls, and the ring.
- 4** Fix the ring (3) to the reduction gear shaft applying pressure, with aid of the pressing-in tool No. 276 8000.
- 5** Mount the reduction gear inside the gear case and fit the retaining ring. Only applicable for "D"-models: Fit the sleeve (1).
- 6** Fill in grease according to the lubrication chart and mount the end bracket (completely with the ball bearing).



**3**

**Mounting the cylinder sleeve**

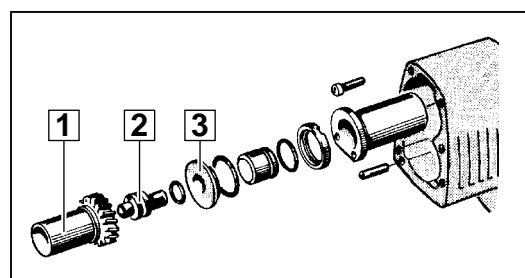
- 1** Insert the cylinder sleeve into the machine and secure it with the screws (5).
- 2** Insert the percussion body (3). Mind the right position!
- 3** Only applicable for "D"-models: Complete and assemble the switch rod (2). Take care that the lug of the switch rod grasps the groove of the sleeve. Mount the switch lever (1).
- 4** Mount the pillow block (4) provided for the reduction gear shaft and the sleeve.



**4**

**Mounting the intermediate gear**

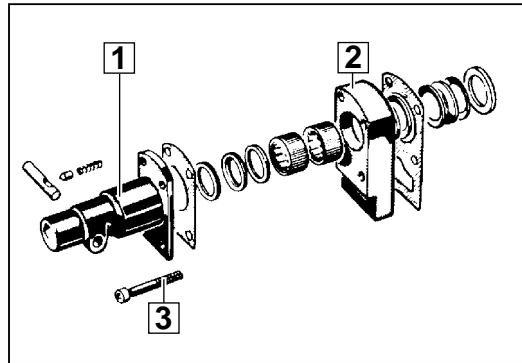
- 1** Insert the retaining ring, the washer (3), as well as the O-ring.
- 2** Insert the intermediate gear (1) and the snap die (2) into the machine.



**5**

**Mounting the nosepiece**

- 1 Fit the bearing end plate (2). If necessary, with aid of a plastic hammer.
- 2 Insert the washer. First insert a pair of disk springs with the vault facing upward, then one pair facing downward, and again one pair facing upward. Insert another washer.
- 3 Fit the gasket. Mount the nosepiece (1) and secure it with the Allan screw.



6

**Test Run**

- Test run the machine and pay attention to noises.  
Check the direction of rotation!  
Let the machine run-in.  
Carry out a percussion test.

**Electrical Test**

- Perform an electrical test on the machine (see chapter Electrical and Mechanical Test Instructions).