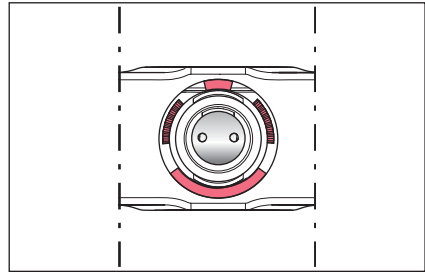
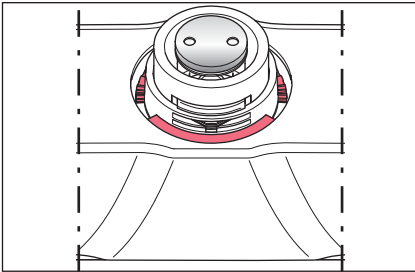


7.5.3.4 Loosening and opening the 1200 µL multi-channel lower part

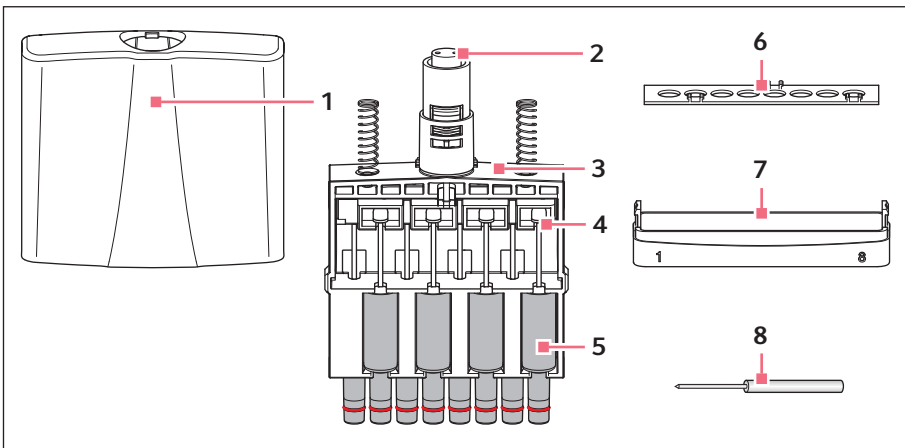
The method of loosening the 1200 µL lower part matches that of loosening the ≥ 2.5 mL lower parts.

1. Press the rocker down.
The piston returns to the basic position.
The lower part can be detached.
2. With the ejector pressed down, turn the lower part approximately 30° and pull down to cancel the magnetic coupling. This releases the lower part from the upper part.



3. View the detached lower part from above. For this, slide the housing case down. Note the exact position of the red marked parts. **The red marked stops on the housing case and the red marked teeth on the inner part are adjacent.** If the stops and teeth are on top of each other after assembly, the housing case has been attached incorrectly.

7.5.3.5 Removing and installing 1200 µL channels



- | | |
|--------------------------|-------------------------|
| 1 Housing case | 5 Channel |
| 2 Piston actuator | 6 Fixing strip |
| 3 Inner part | 7 Bottom panel |
| 4 Piston | 8 Unlocking tool |

Only disassemble the channels when the upper part is detached from the lower part.

1. Press the unlocking tool as far as it will go into the base plate.
The base plate can now be detached by pulling gently at the side - at the side with the unlocking tool inserted. This loosens the base plate on the other side. Remove the base plate.
2. Take the inner part out of the housing case.
3. Loosen the fixing strip from the inner part. To do this, push the fixing strip away from the inner part in the area near the three fixing strip catches on the inner part.
4. Have a close look at the channel arrangement in the inner part. Four channels are accessible from each side. The tip cone of the channels is eccentric to the cylinder. The channels on the opposite side are therefore positioned "mirror-inverted". Ensure that the channels are inserted so that they are aligned in the center again during subsequent assembly.
5. Completely press down the guiding rail for the piston rods. Press the piston rod lightly out of the guiding rail and remove the channels.
6. Before installation, slide the piston into the cylinder. Install the channels in reverse order in accordance with the previously mentioned instructions. After installing the channels, carefully push the guiding rail with the piston rods upwards to ensure that the magnetic coupling of the lower and upper part can be safely reestablished.
7. Insert the reassembled lower part into the upper part. The lower part automatically snaps into the upper part on insertion. Make sure that the magnet on the piston actuator in the lower part is coupled with the magnet on the spindle in the upper part.
8. Carry out a gravimetric test of the systematic and random errors.
This test ensures that no parts were confused during assembly and that the pipette has been assembled correctly.