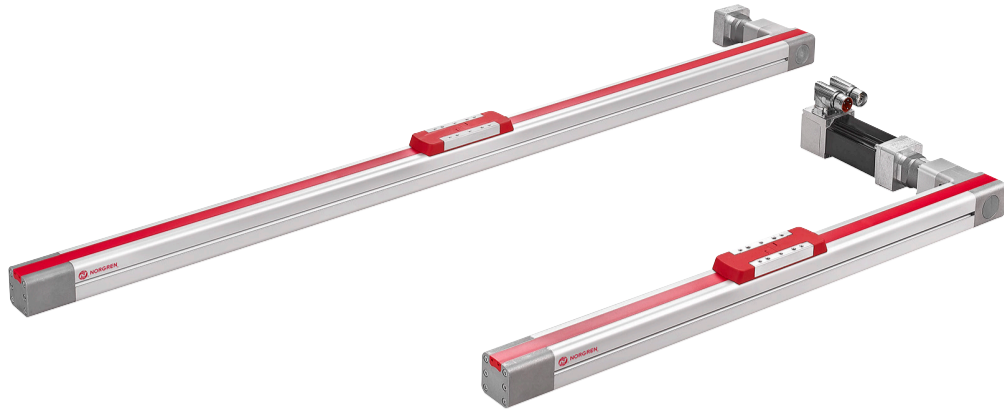


Maintenance instruction for electromechanical actuators

Document No. **M/P76314**

Revision 1



1 About this documentation

1.1 Validity of the documentation

This maintenance instruction applies to rodless, electromechanical actuators with series designation E/148000 and E/149000.

1.2 Structure of safety instructions

Safety instructions warn against dangerous situations and must be observed in particular. Safety instructions are structured as follows:





SIGNAL WORD

Type of hazard

Consequences of non-observance

→ Precautions necessary to avoid the hazard

Hazard classes (ANSI Z535.6)

 DANGER	Direct hazard with high risk; Consequences: Death or serious injury.
 WARNING	Potentially hazardous situation with medium risk; Consequences: Death or serious injury.
 CAUTION	Hazard; Consequences: minor or moderate injury.
 NOTICE	Hazard; Consequence: Damage to property.

1.3 Contents of spare parts kits

- Closer 2x
- Clip 2x
- Cover Strip

1.4 Applicable documents

Observe the installation and maintenance manual for rodless, electromechanical actuators:

Actuator part no.	Document
E/148xxx	M/P75661
E/149xxx	M/P75660

1.5 Personnel qualification

Maintenance must only be carried out by qualified and authorized personnel

- As operator, ensure that persons who work on or with the actuator are sufficiently qualified for this job.
- Train the service technicians thoroughly in terms of safety of the respective plant.
- Only allow trained specialists to replace spare parts.

2 Safety instructions

Anyone responsible for the installation, commissioning or maintenance of the electromechanical actuators must have read and understood the related operation manuals M/P75660 or M/P75661 and this maintenance instruction. This is particularly relevant for sections with safety instructions.

WARNING

Danger from moving parts.

There is a risk on injury in the travel range of carriage and payloads.

- Secure the switched off machine against being switched on again during mounting or maintenance works.
- Carry out maintenance works of the actuators outside of the hazard zone if possible.

3 Unmounting actuator

Only qualified and authorized personnel is allowed to unmount the actuator.

- Put the plant into a safe state. Observe the safety regulations of the respective plant.
- Make sure that no hazards can arise from moving parts and payloads.

WARNING

Danger from moving parts.

There is a risk on injury in the travel range of carriage and payloads.

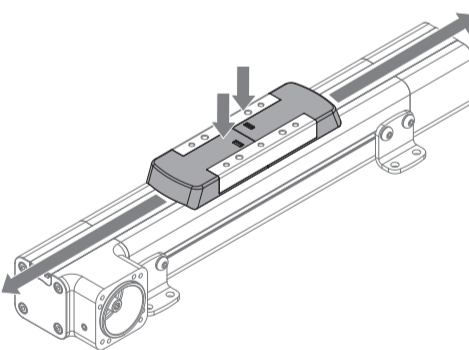
- Secure or remove heavy payloads that may fall off during decommissioning.
- Secure the area close to the actuator and payloads from access by unauthorized persons.
- Move vertically mounted actuators into the lower end position prior to shutting off electric currents of the plant section and of the actuator.

1. CAUTION Leave heated components to cool down to room temperature.
2. CAUTION Risk of cuts. Wear protective gloves.
3. Loosen payloads, attachments and fixing elements.
4. Unmount the actuator.

4 Disassembling unmounted actuator

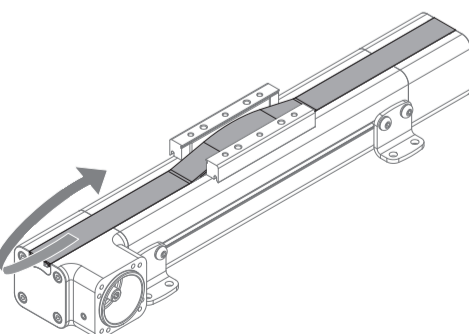
4.1 Removing the closer

Press the two closers in the middle of the carriage apart with a screwdriver. If necessary, push the clamps downwards. Then pull the loosened closer halves out of the carriage to each side.



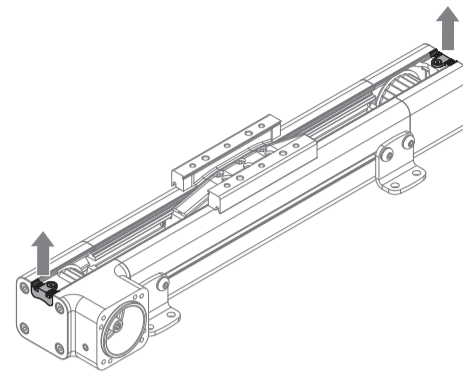
4.2 Removing the cover strip

Loosen the cover strip with a screwdriver from the grooves of one of the housings upwards and pull it out of the drive at the detached end.



4.3 Removing the clips

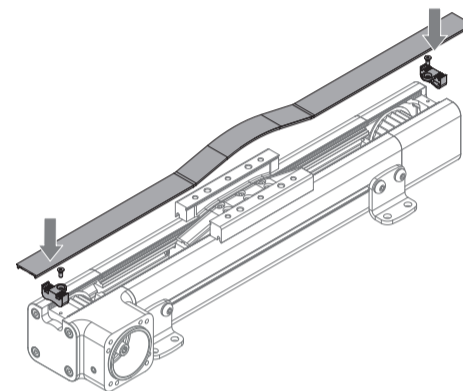
Loosen the mounting screws of the clips and remove both from the bearing housings.



5 Mounting of closers

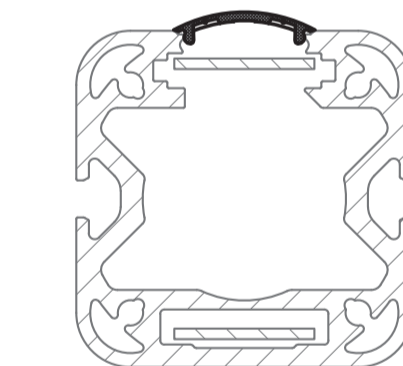
5.1 Mounting of clips and cover strip

Insert and tighten the new clips in the provided openings of the bearing housings (torque: 0.5 Nm).



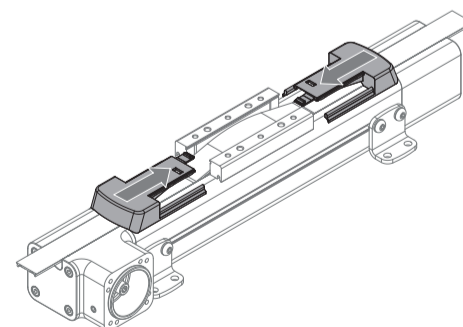
Press the cover strip with ~20 mm overlap from above into the grooves of the drive bearing housing. On actuators with larger motor flanges, insert the cover strip flush to the motor flange without any overlap. Slightly curve the cover strip upwards with two fingers and press into the guide profile up to the carriage.

After that pass the cover-strip over the carriage and behind it again into the guide profile and the loose bearing housing.



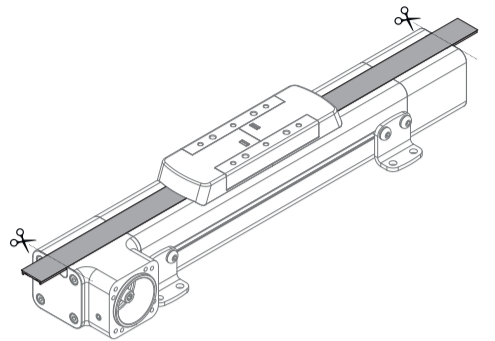
5.2 Mounting of closers

Place the closer on the guide profile and thread them into the guides provided for this purpose on the carriage. Then push the closers into the carriage until both halves snap into each other.



5.3 Cutting of cover strip

After mounting the closers, manually move the carriage back and forth over the entire stroke so that the cover-strip can stretch. Then cut off the protruding cover-strip flush with the bearing housings at the front and rear.



6 Mounting actuator

Mount the re-assembled actuator back into the machine and follow the commissioning instructions in the related installation and maintenance instructions.