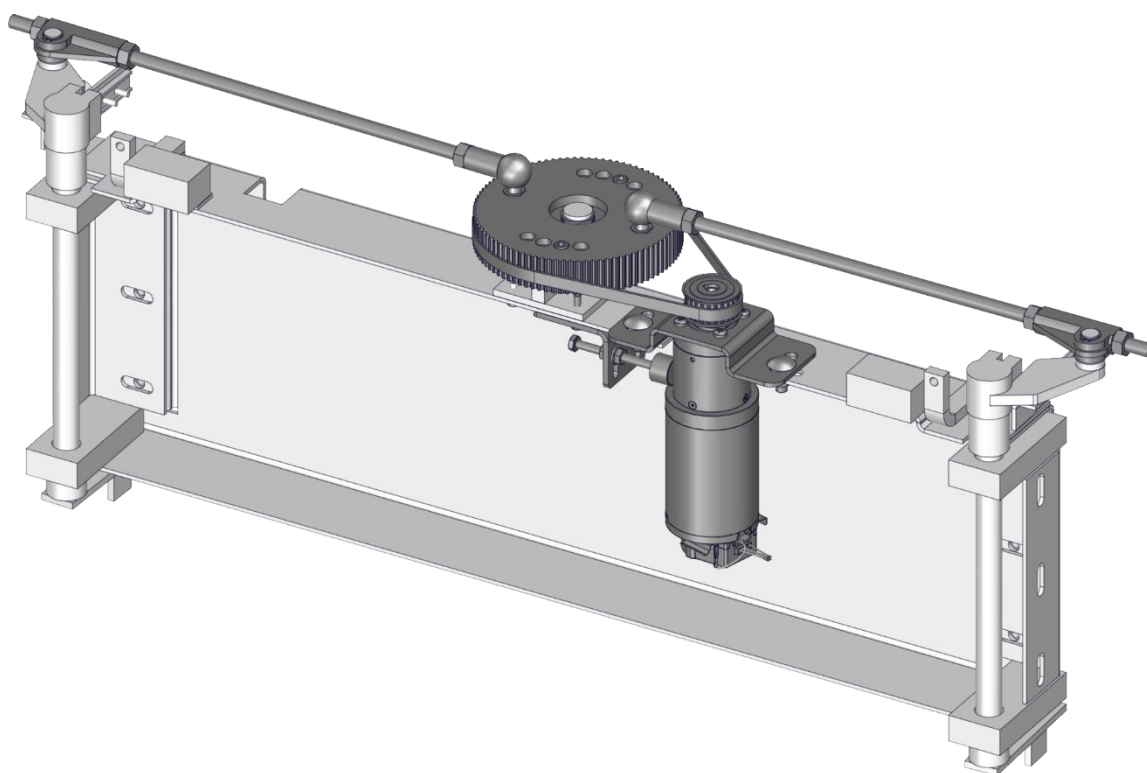




Conversion Instruction

Kramer folding door

to TSG V4

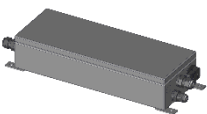
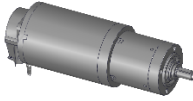
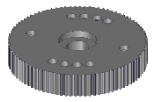
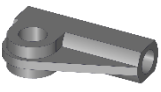
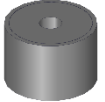
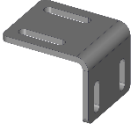
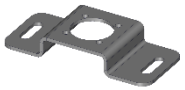
Shows **Z**.

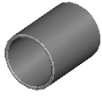
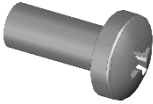
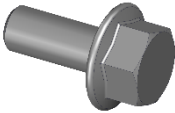
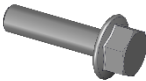
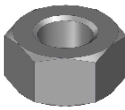
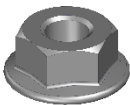
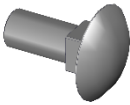
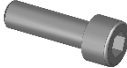
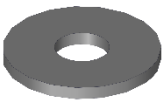
1. Safety and warning instruction

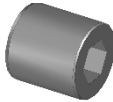
Carrying out this work requires knowledge of, and compliance with, the general safety and warning instructions as set out in our **installation instructions for lift door operators – 1.20.91000**.

2. Scope of delivery

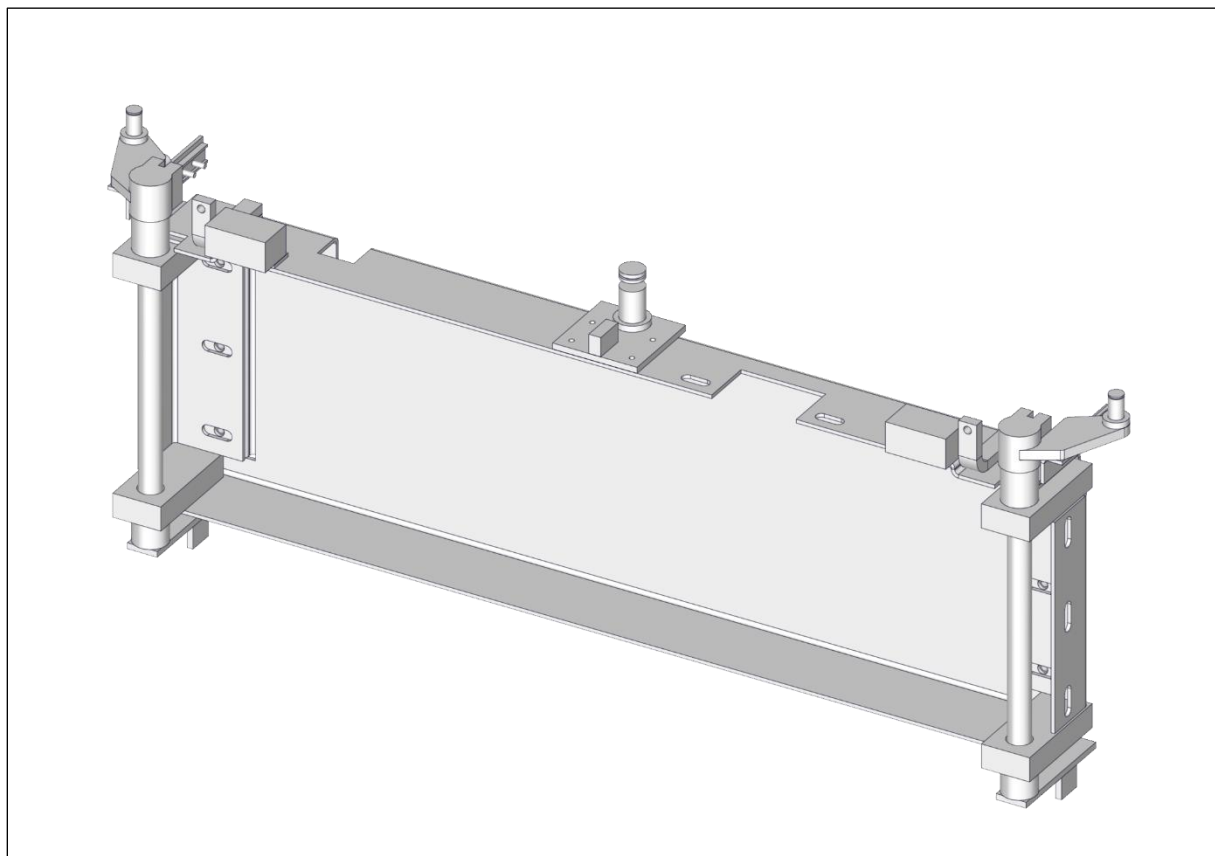
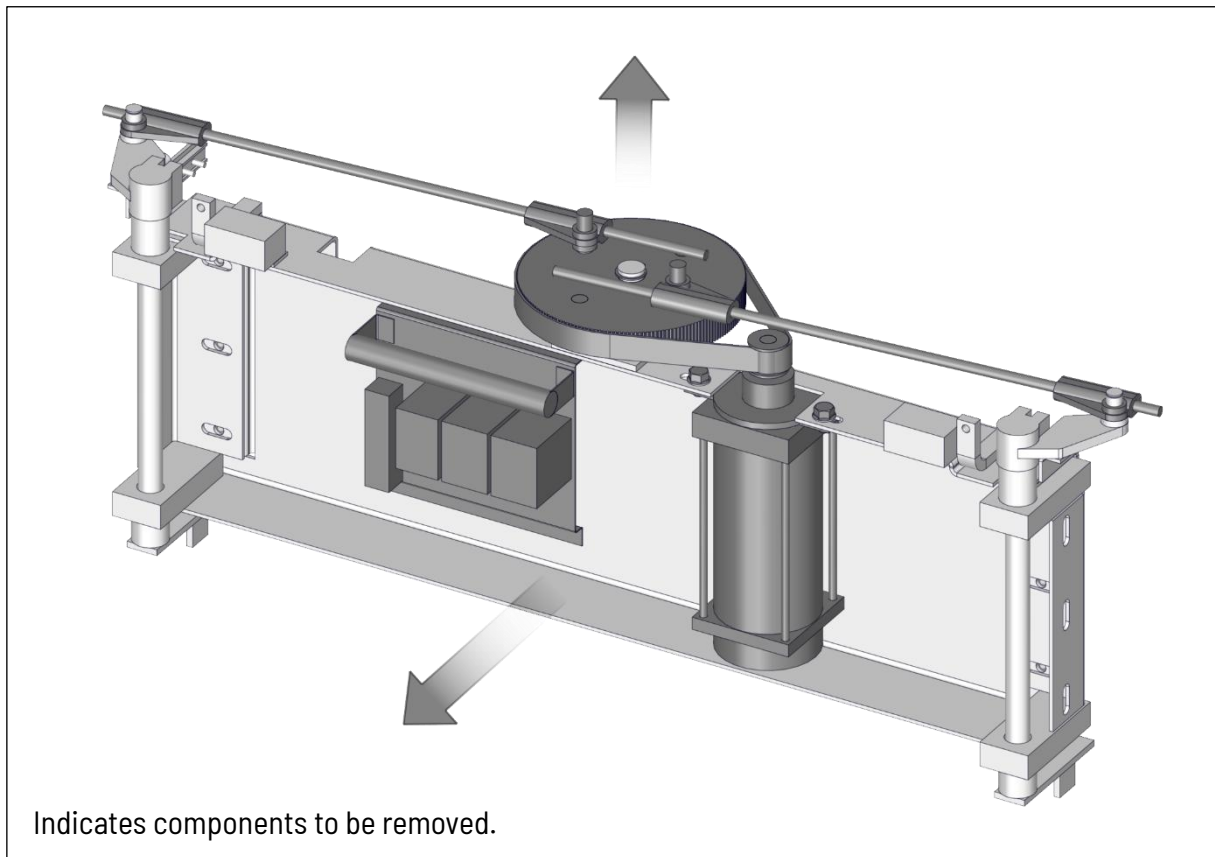
The table shows the components of the conversion kit. The item descriptions are used in the following chapters to identify the individual components.

Pos.	Illustration	Item number	Description	Quantity
P001		8.20.xxxxx.04	TSG-electronic	1
P002		8.20.502xx.xx	TSG-motor	1
P003		1.20.23105	Hinge, M10	2
P004		1.20.23106	Threaded rod, M10	2
P005		1.20.23120	Slewing ring, D=142, 5M	1
P006		1.20.23310	Holder	2
P007		1.20.30217	Bumper, D=20	3
P008		1.20.31110	L-shaped bracket	1
P009		1.20.60057	Hat shaped motor bracket	1

P010		1.20.60140	Timing belt pulley, D=37, 5M	1
P011		1.20.92210	Sleeve, D=23	1
P012		1.36.00018	Button head screw, M5 x 12 mm	4
P013		1.36.00114	Hexagon head screw, M6 x 70 mm	1
P014		1.36.00130	Locking Screw, M5 x 12 mm	2
P015		1.36.00133	Locking Screw, M5 x 20 mm	2
P016		1.36.00150	Nut, M10	8
P017		1.36.00501	Nut, M8	2
P018		1.36.00502	Nut, M6	2
P019		1.36.00525	Pan-head screw with square shank, M8 x 20 mm	2
P020		1.36.00600	Cylinder screw, M6 x 20	2
P021		1.36.01030	Washer, M10	2

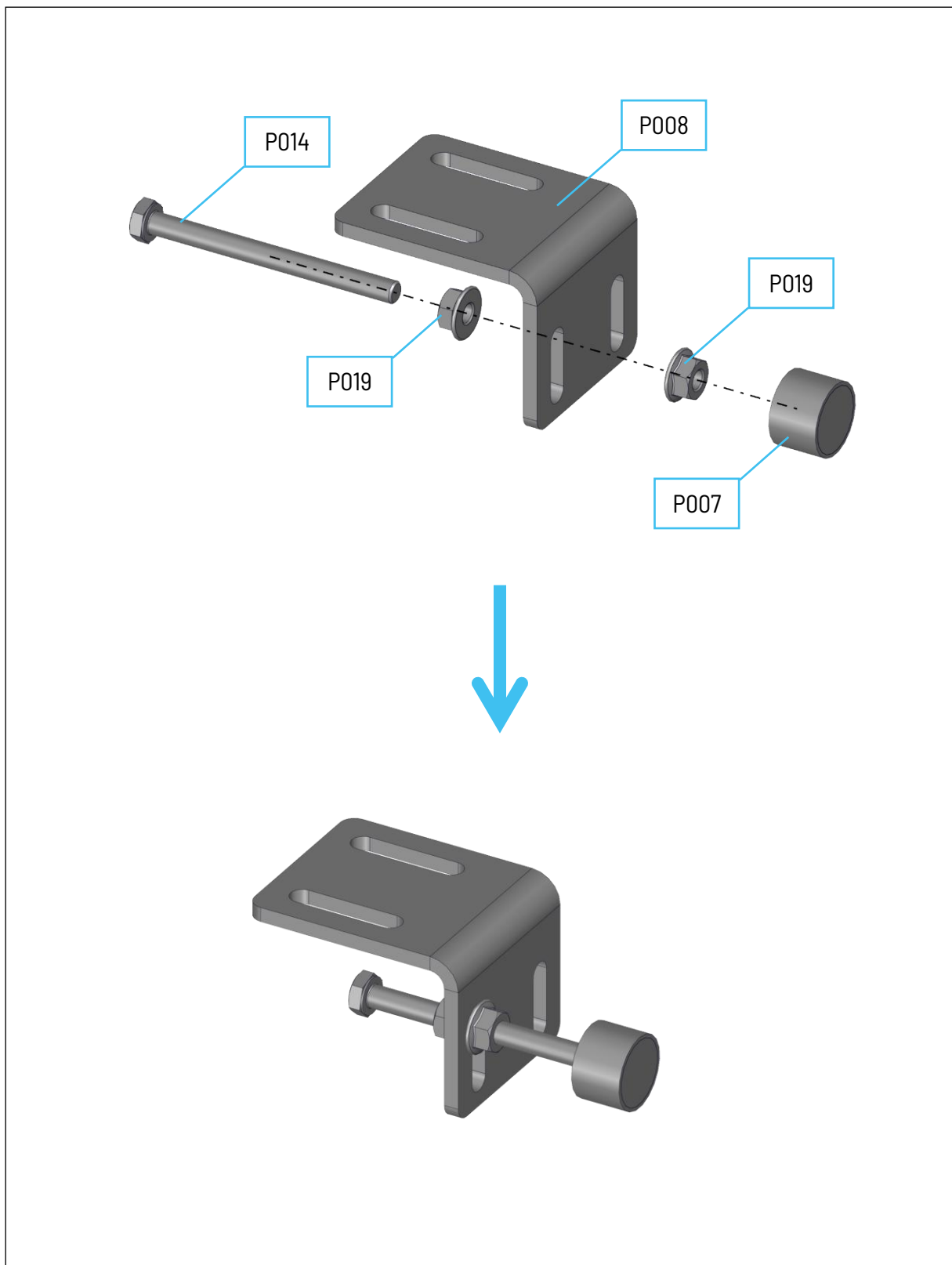
P022		1.36.01370	Retaining ring for shaft, D=12	2
P023		1.36.01375	Retaining ring for shaft, D=20	1
P024		1.36.05040	Set screw, M5 x 5 mm	1

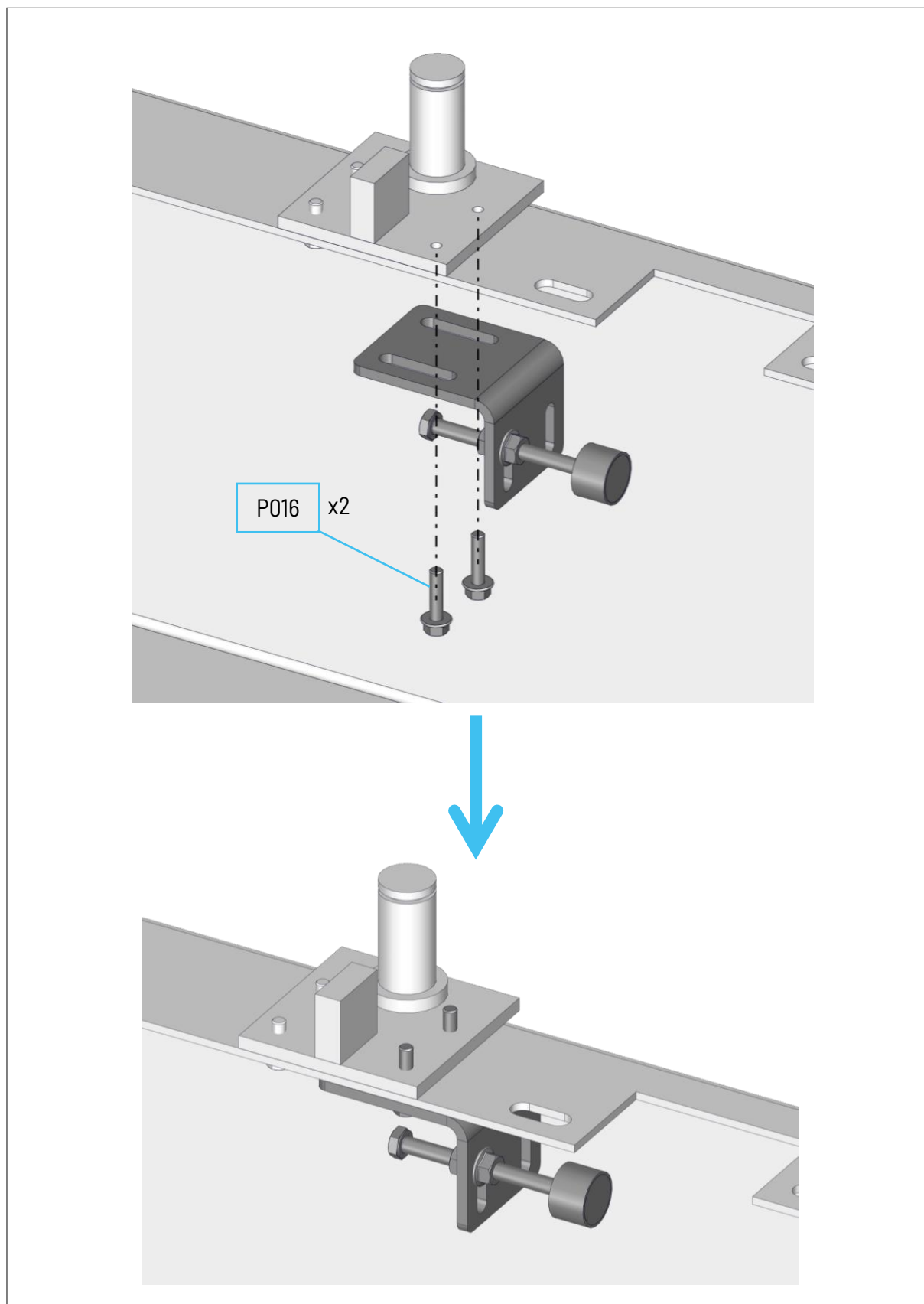
3. Disassembly of existing components

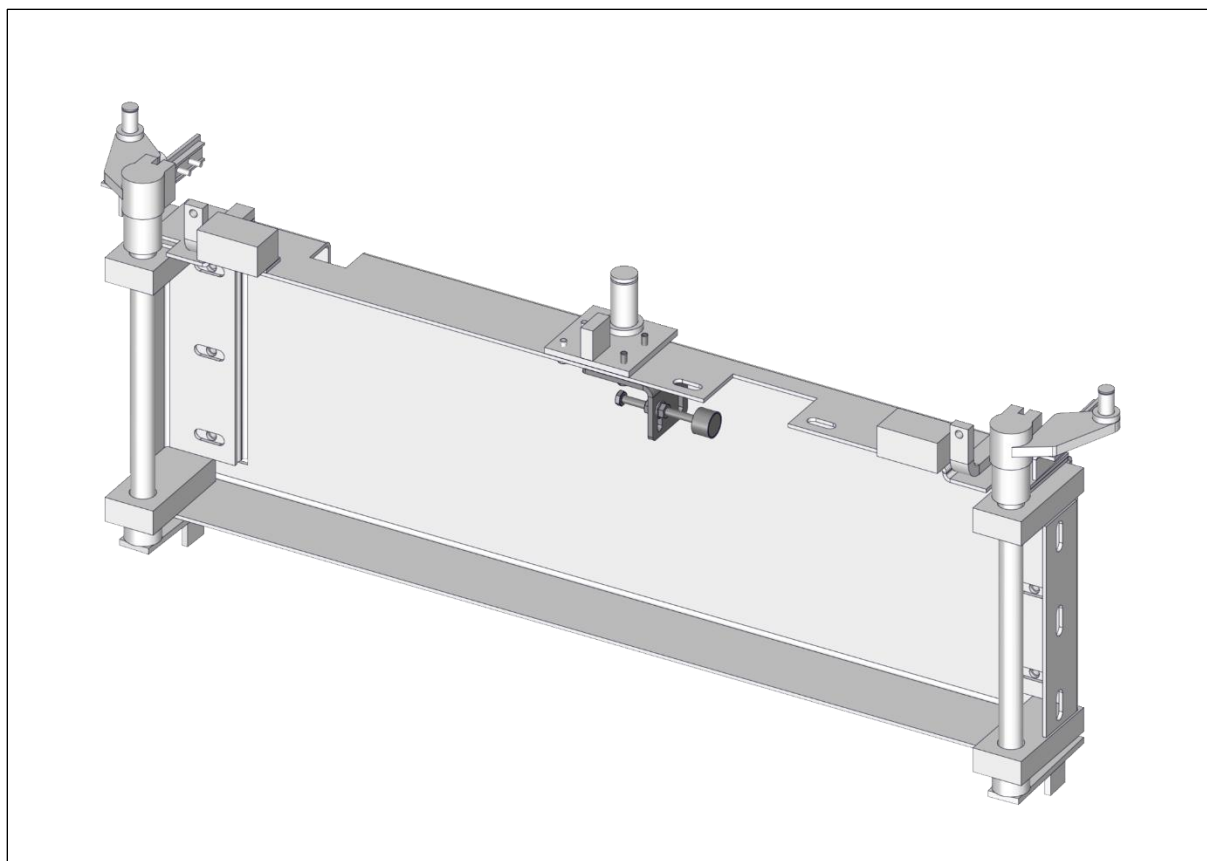


4. Mounting

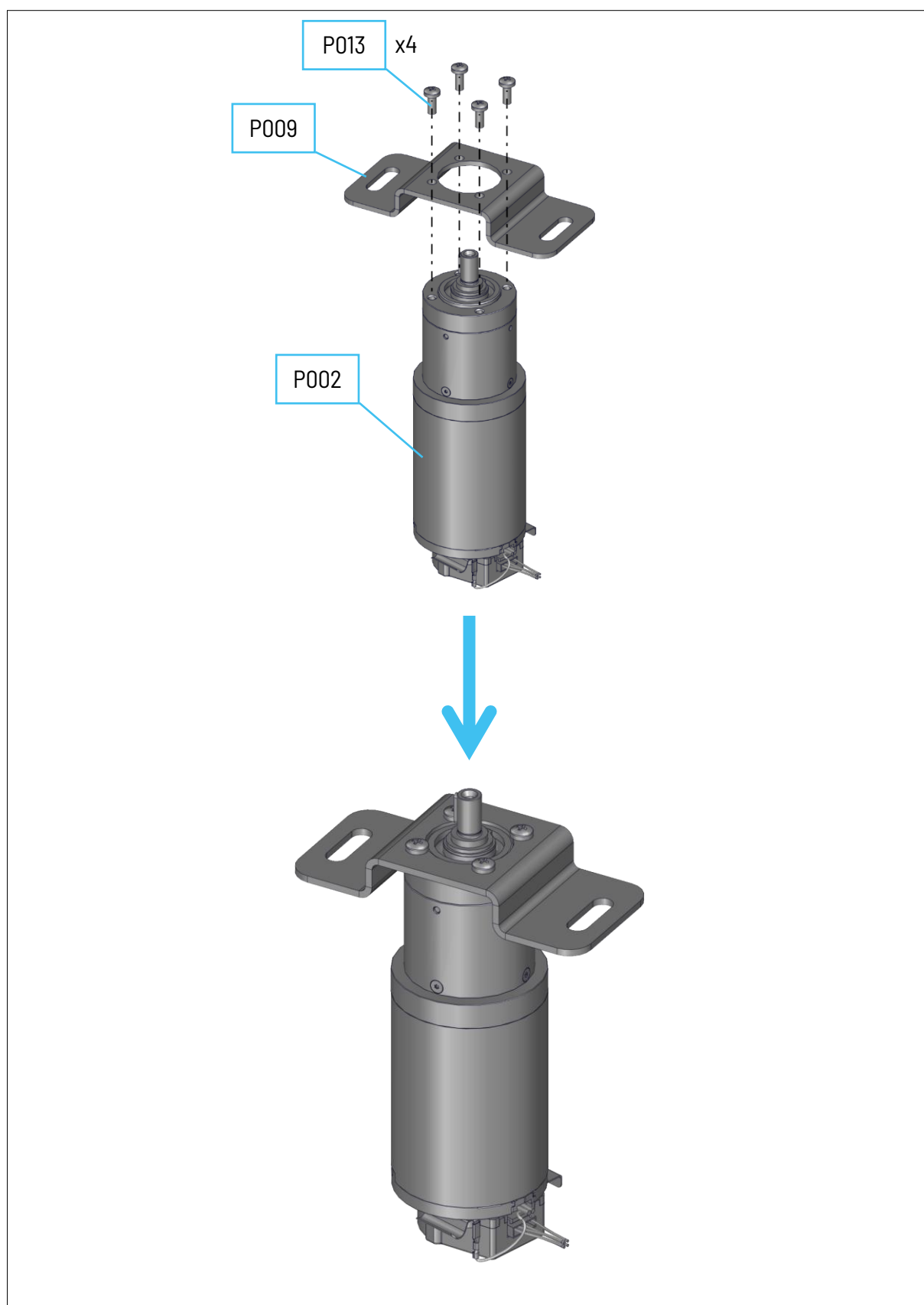
4.1 Mount the clamping unit to the transom

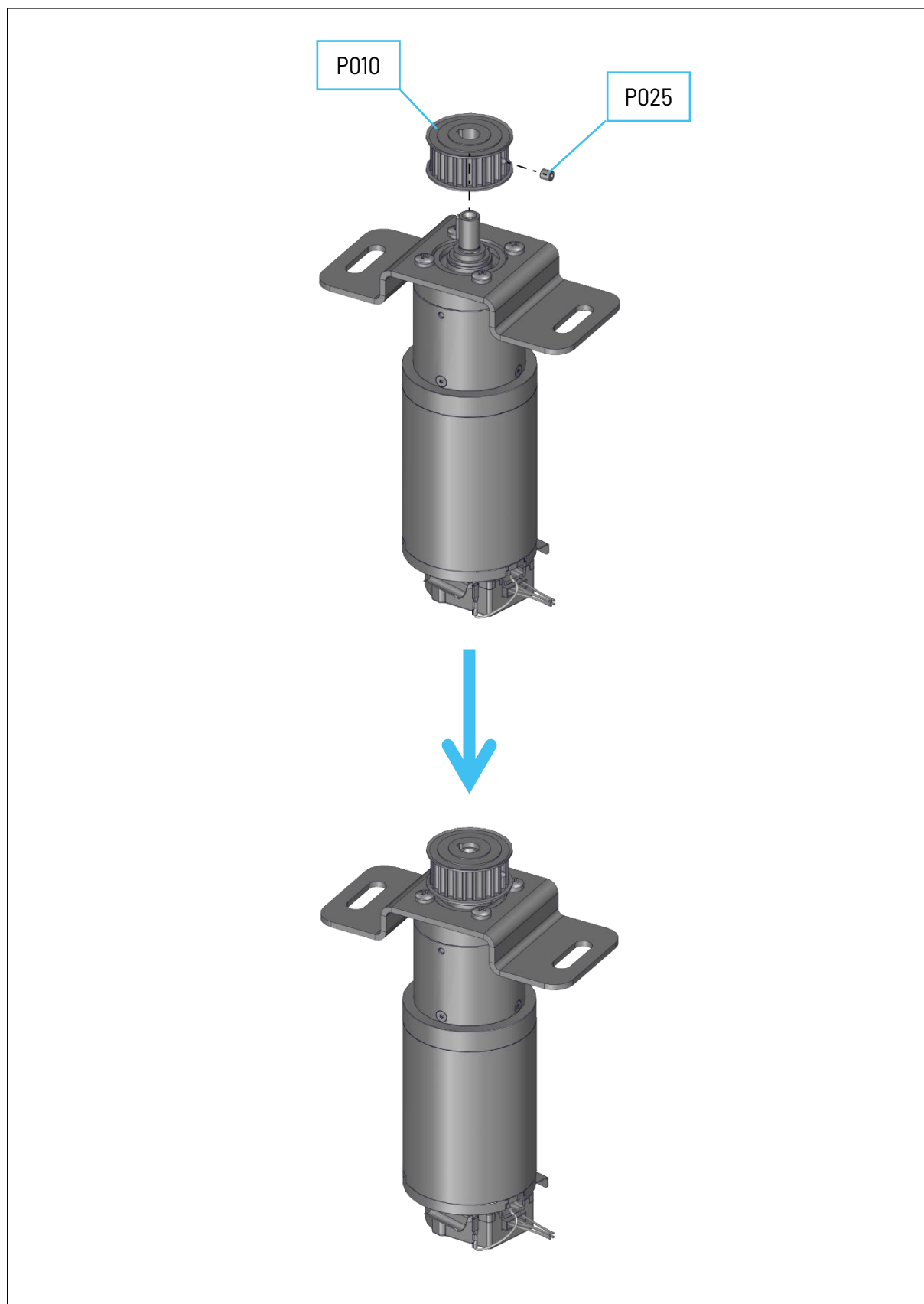


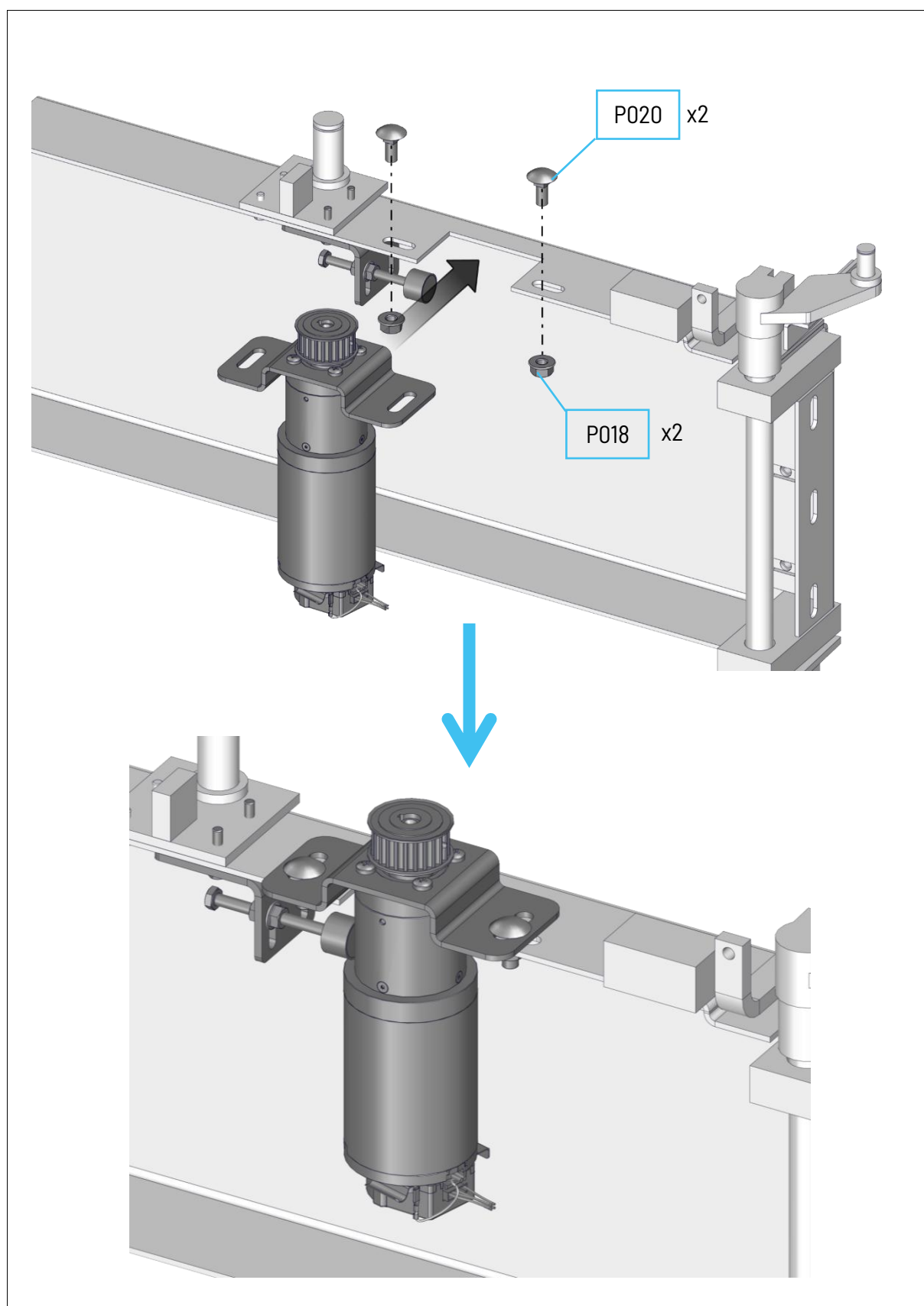


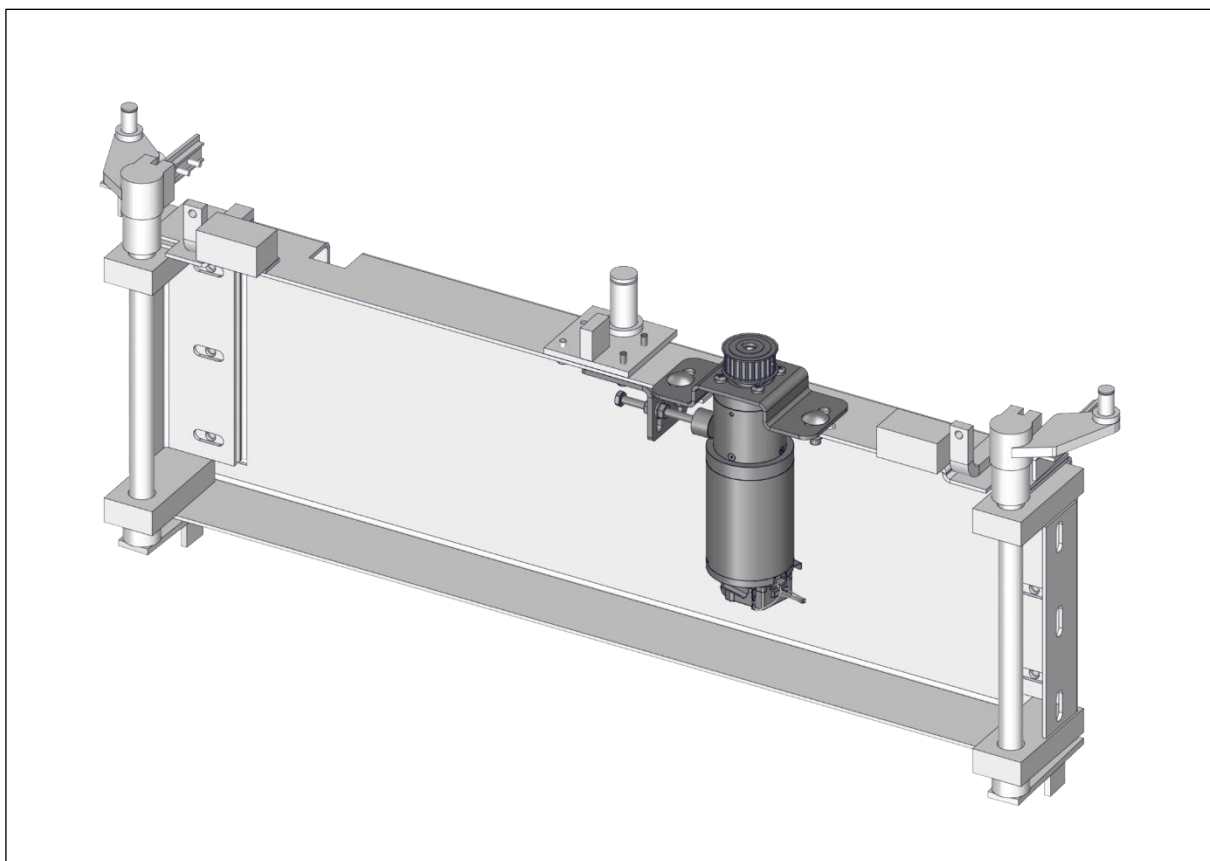


4.2 Mounting the motor unit to the transom

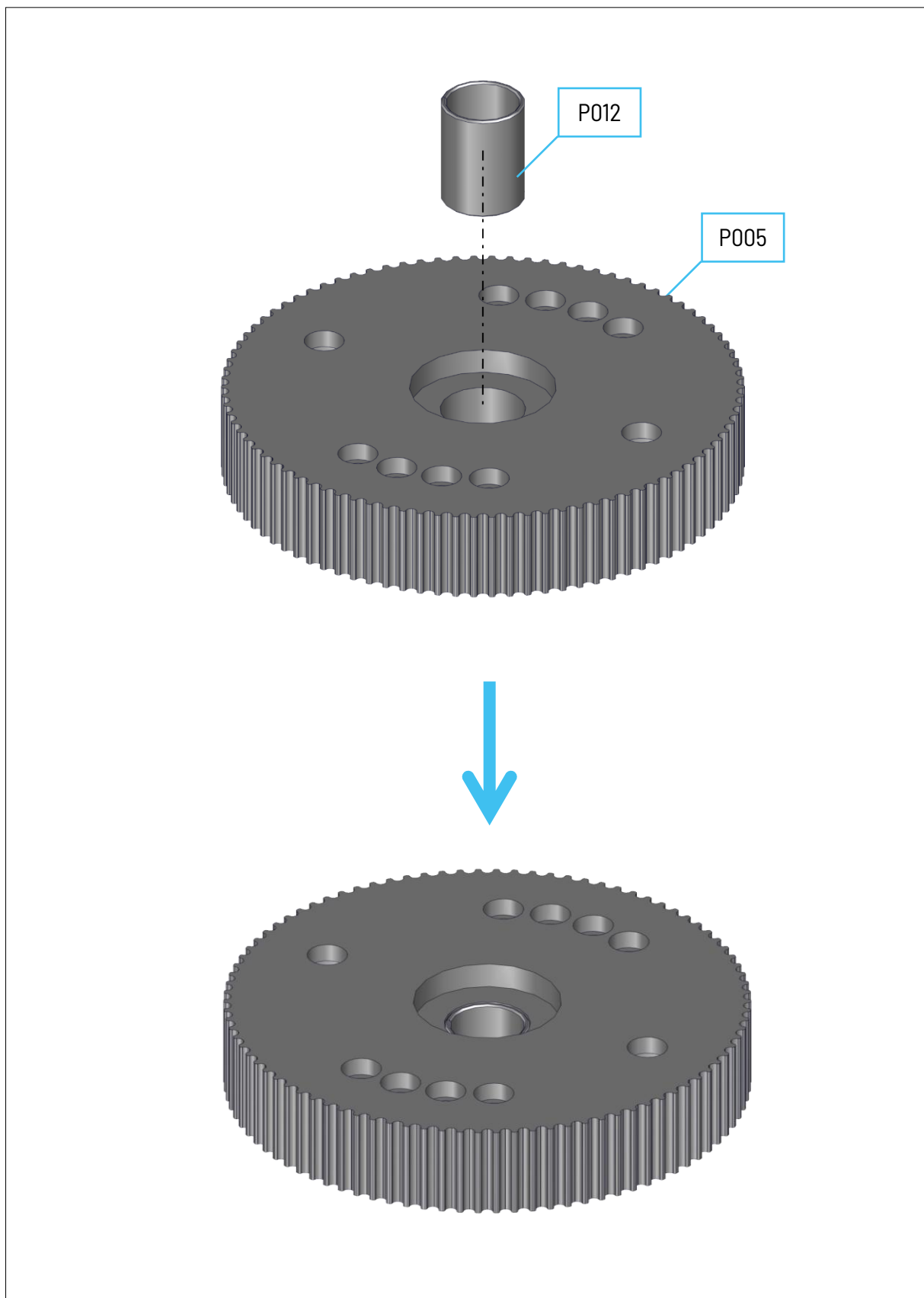


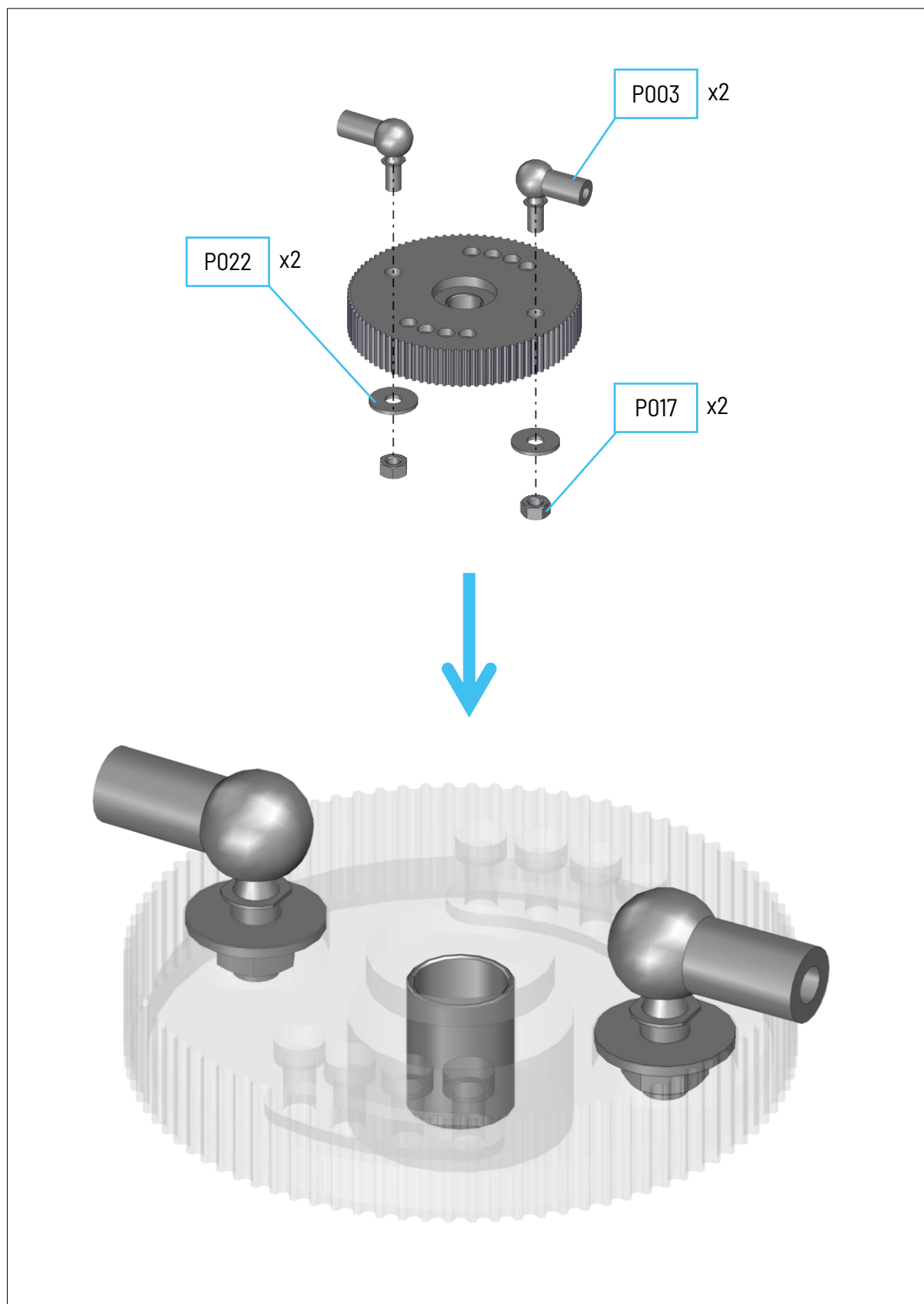


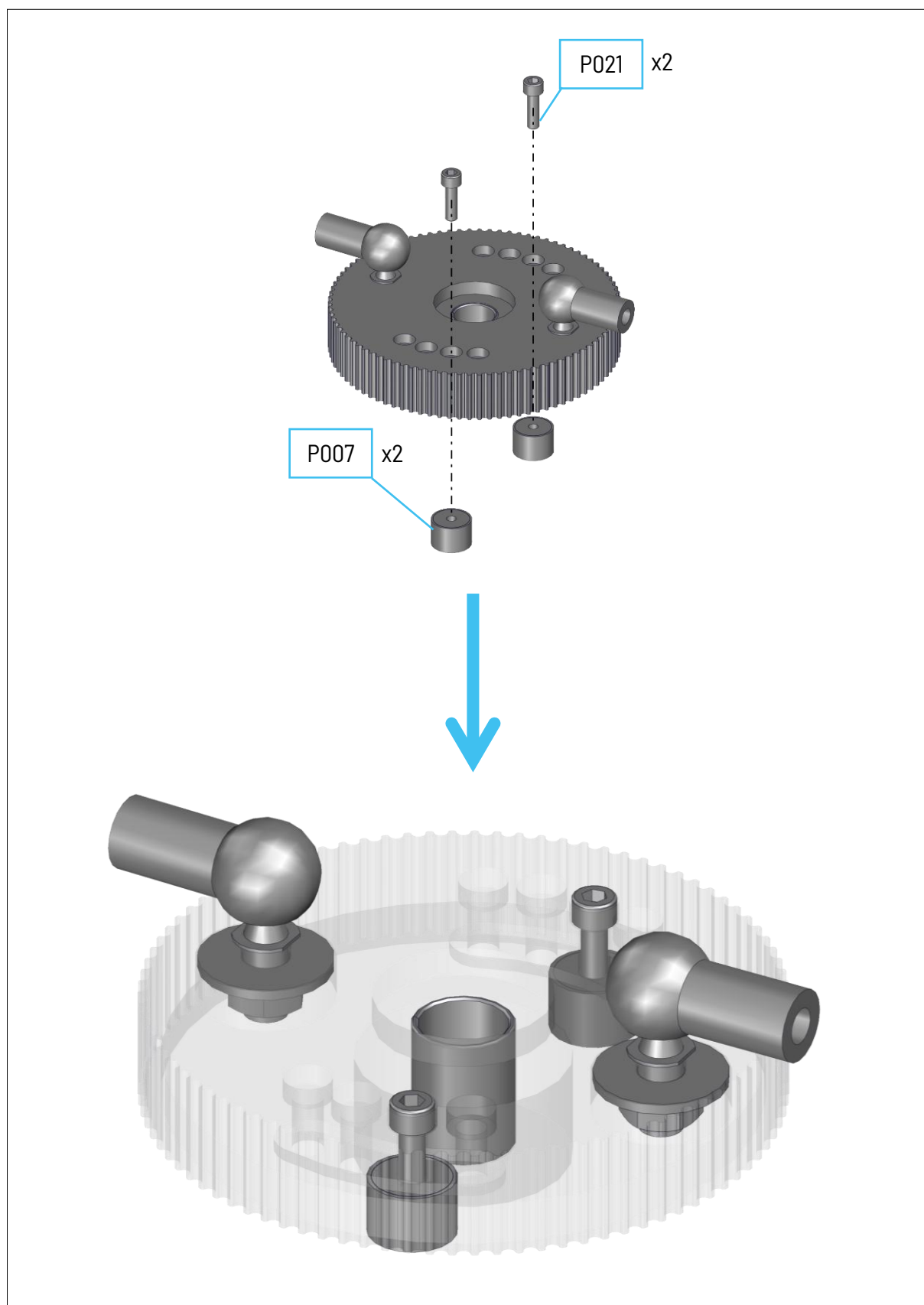


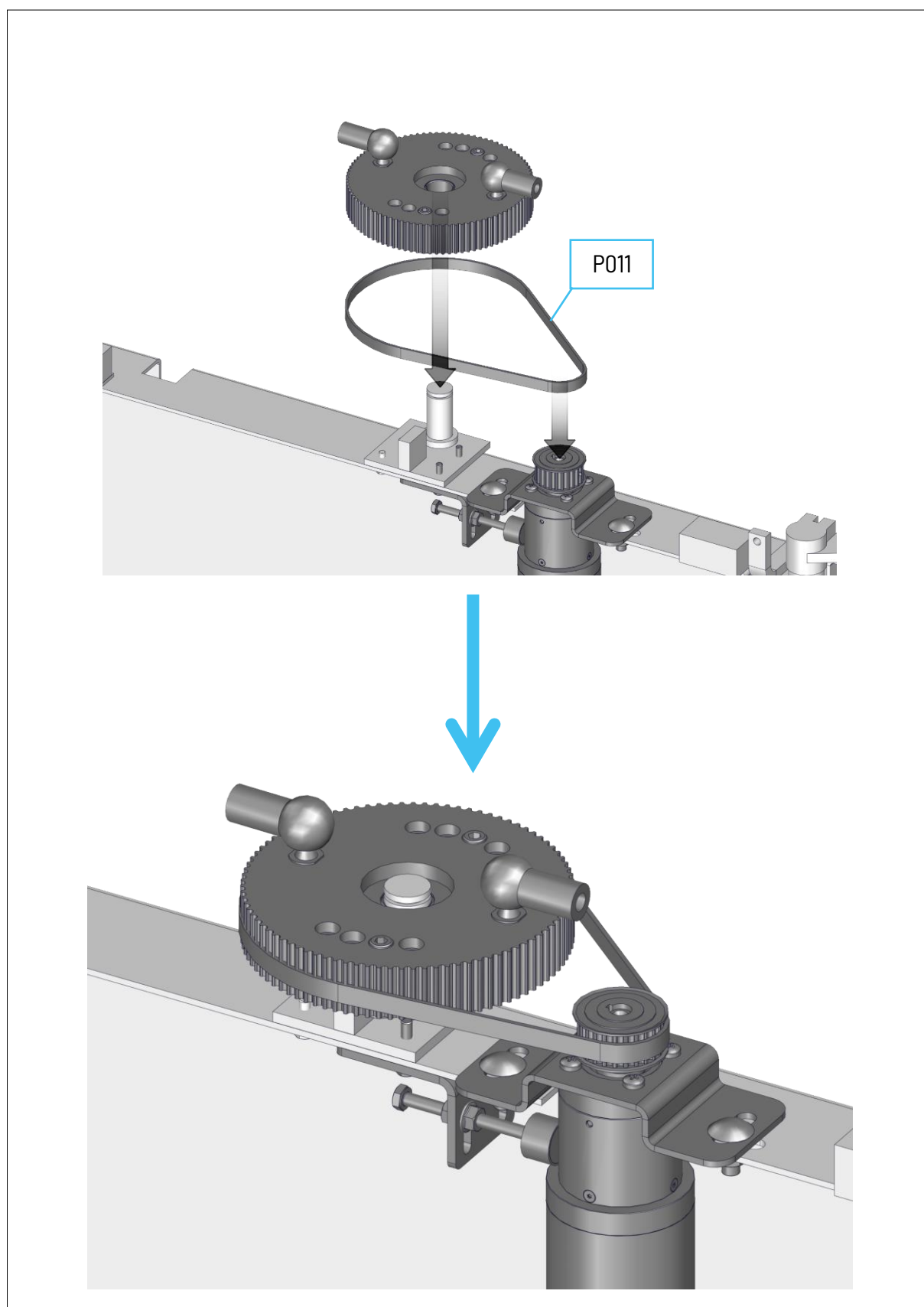


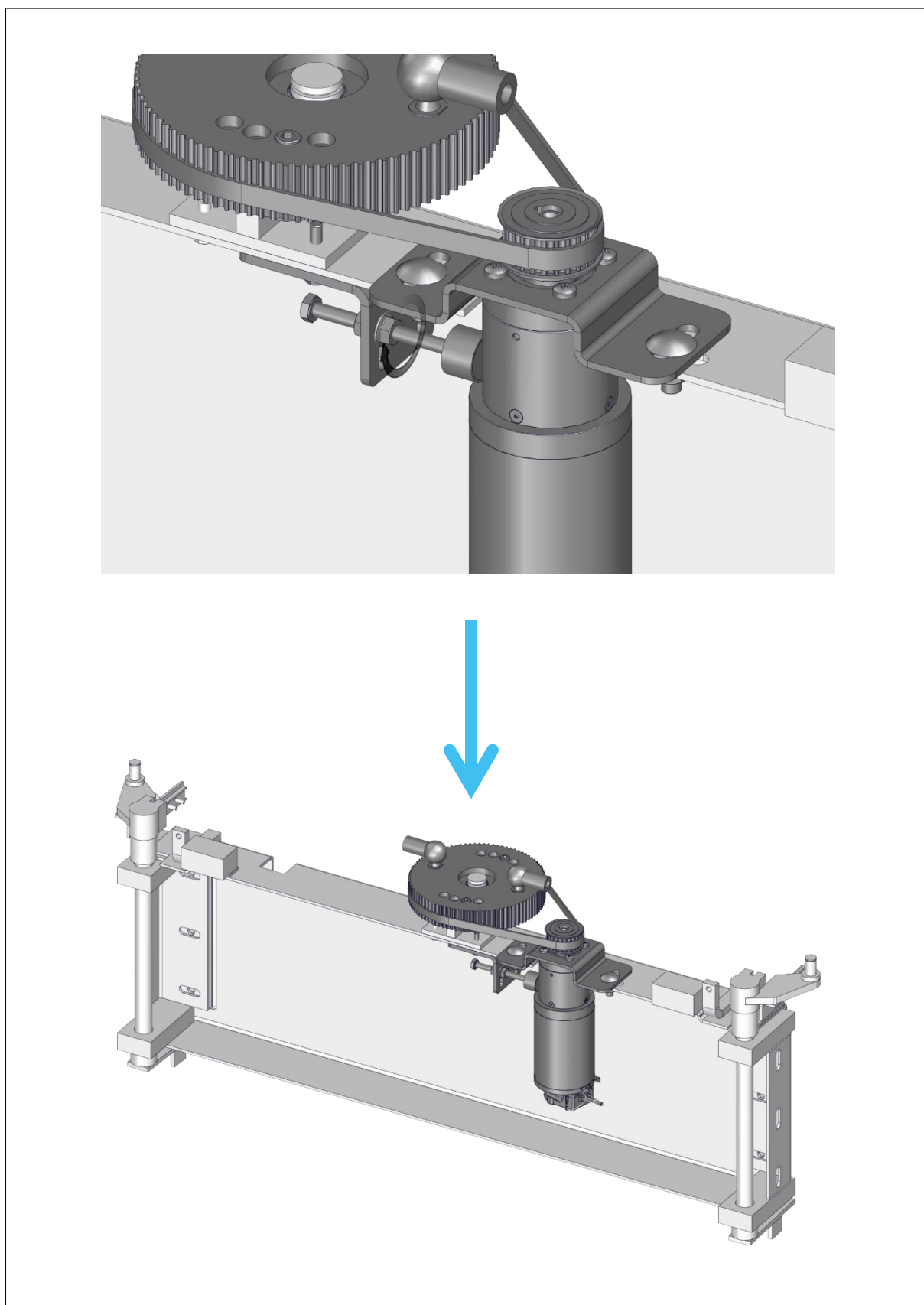
4.3 Mounting the slewing ring



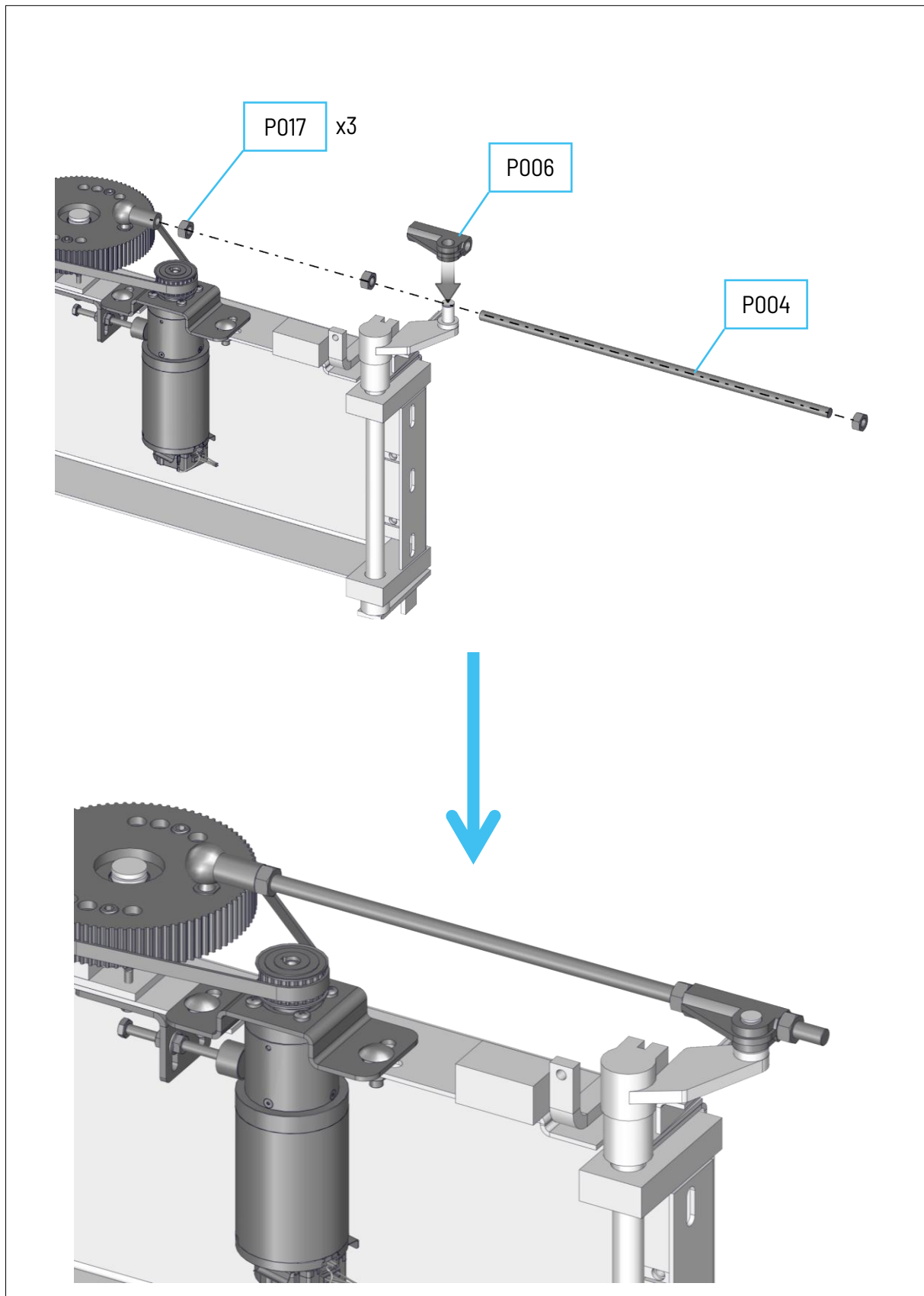


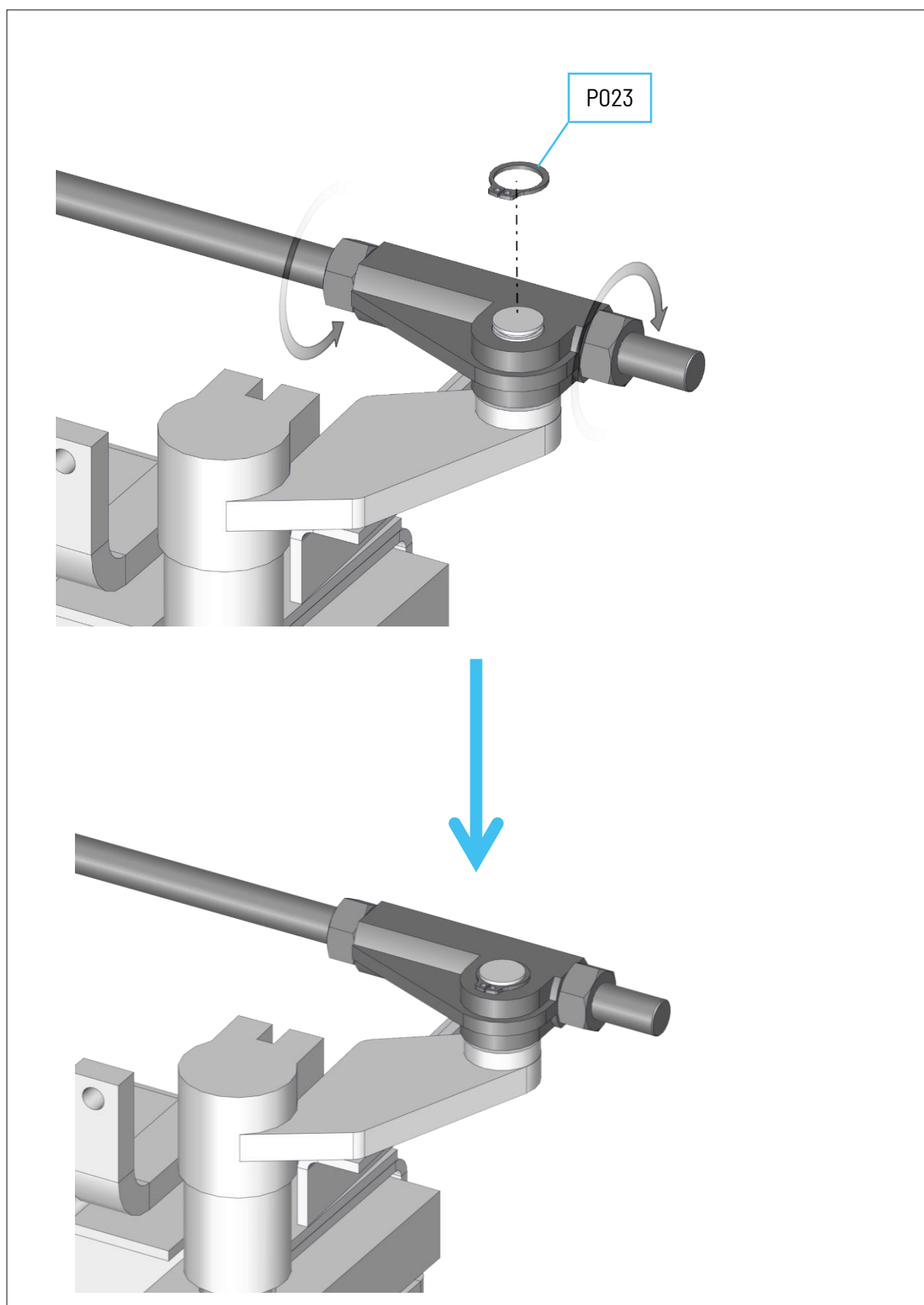


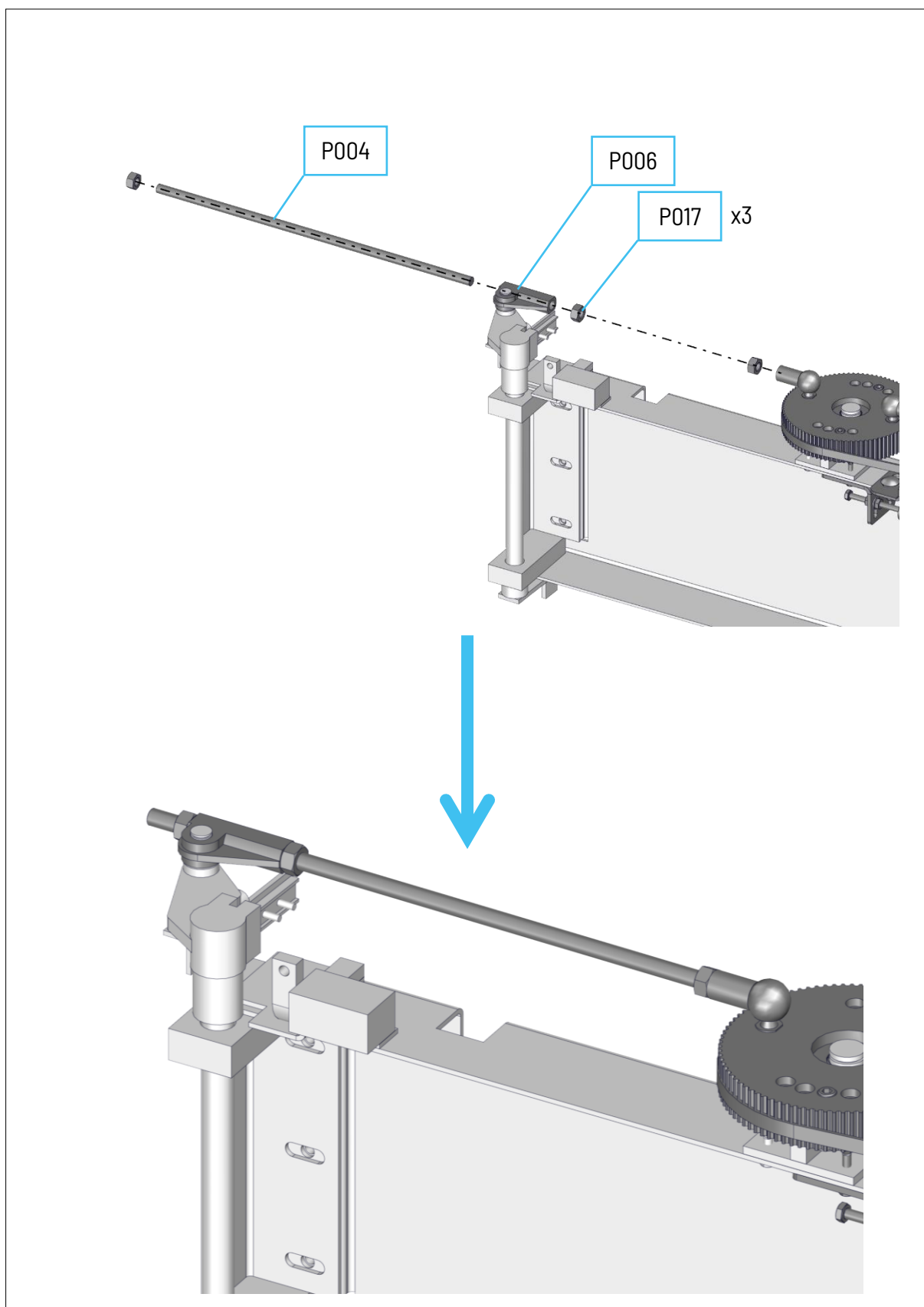


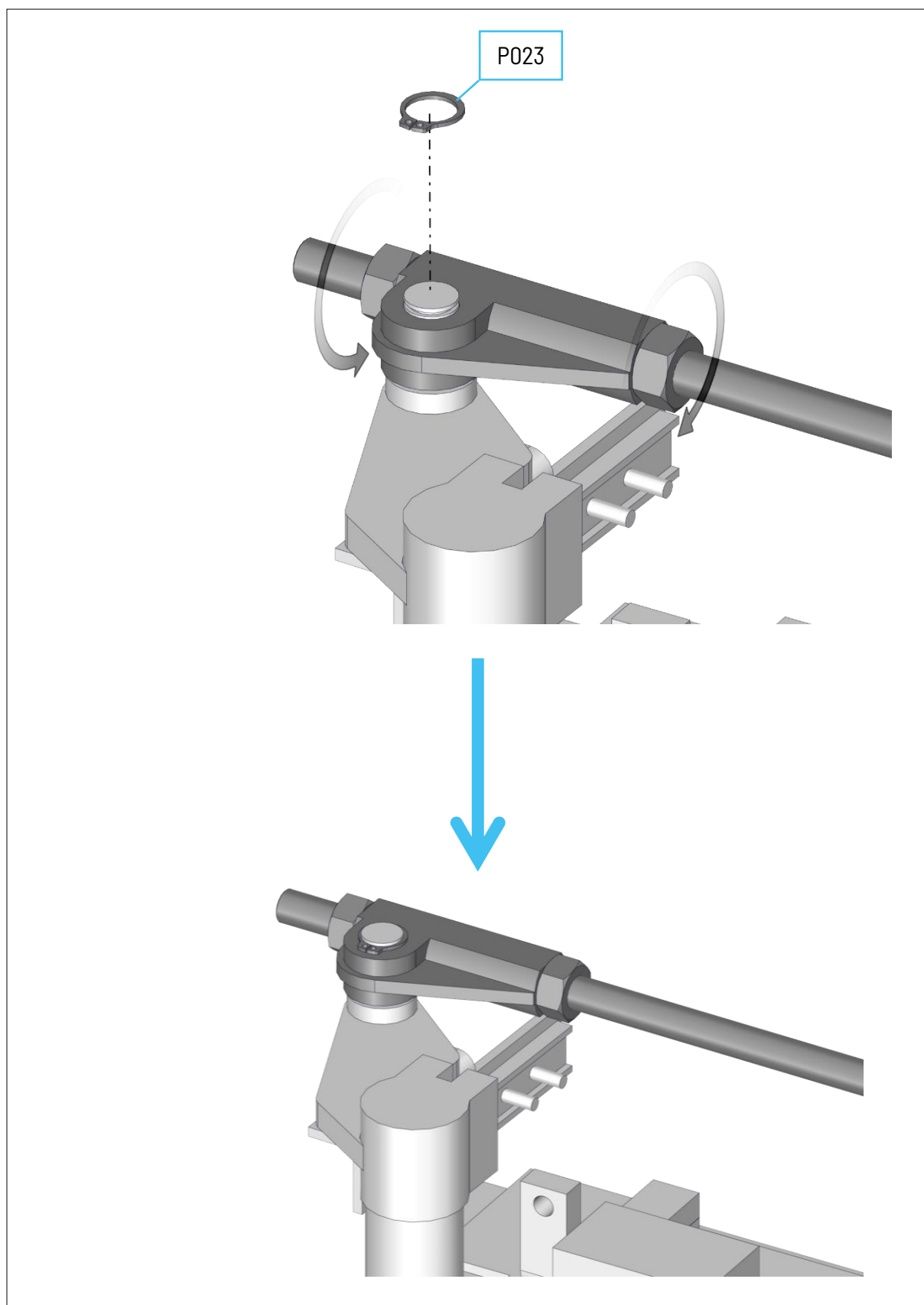


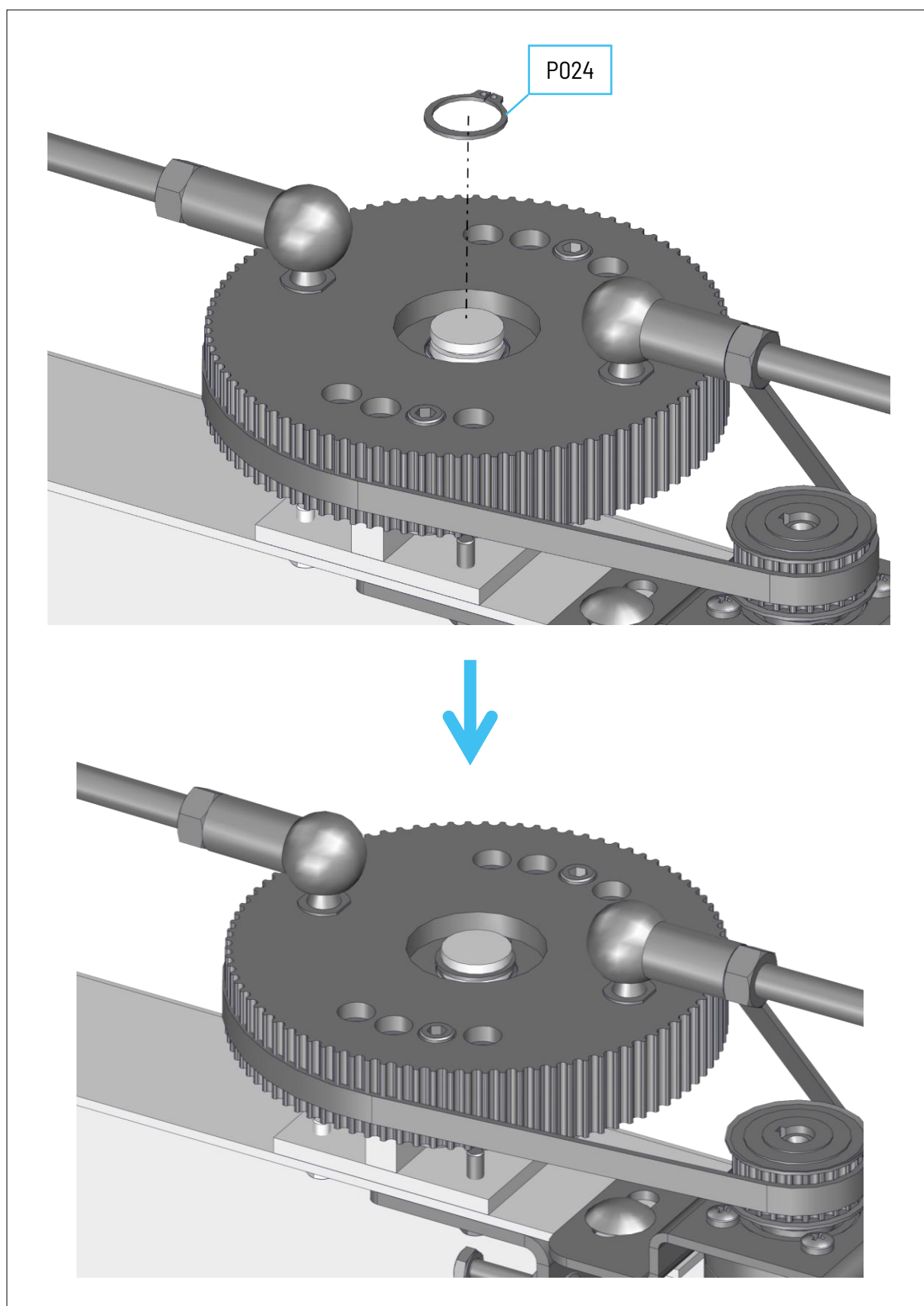
4.4 Mounting the mechanical arms

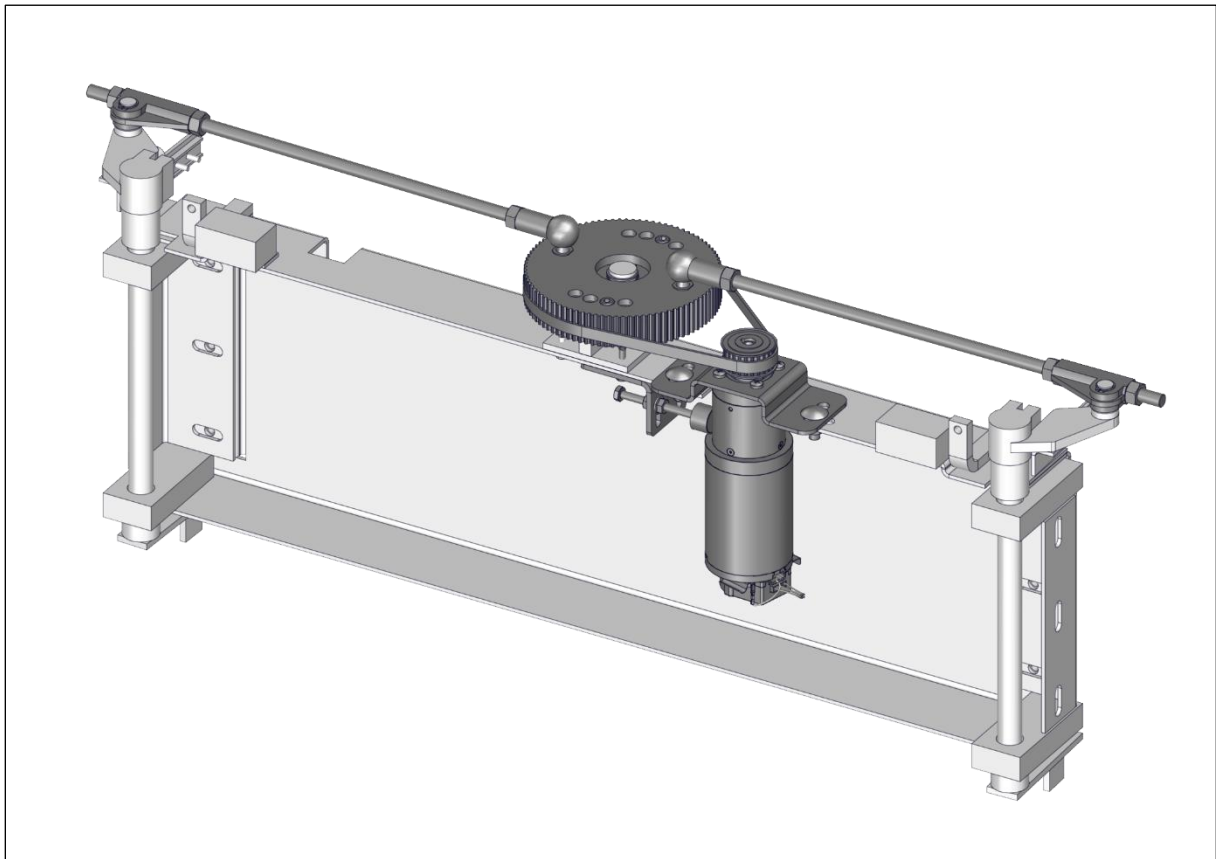












5. Fitting, connecting and commissioning the door control unit

Fitting, connecting and commissioning the door control unit are described in detail in the **assembly instructions** supplied with the door control unit.