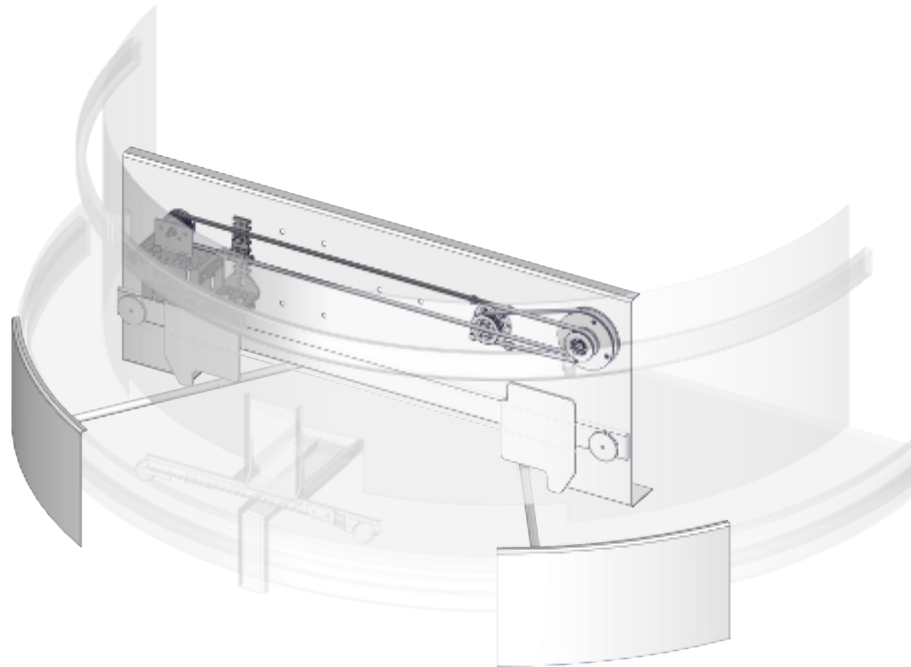




Conversion Instructions
Selcom/Wittur, round door
to TSG V4

Shows **Z**.

Imprint

Manufacturer	Langer & Laumann Ing.-Büro GmbH
Address	Wilmsberger Weg 8 48565 Steinfurt Germany
Phone	+49 (2552) 92791 0
E-mail	info@lul-ing.de
Internet	www.lul-ing.de

Dokument **in Deutsch** durch Scannen des QR-Codes anfordern.



Obtenir le document **en français** en scannant le code QR.



1 About these instructions

1.1 Purpose

These conversion instructions contain important information and general mechanical assembly steps for the conversion of an existing system. These instructions must be observed to avoid hazards, repair costs and downtimes and increase the reliability and service life of the system.

1.2 Scope

These conversion instructions apply to the following conversion kit:

- Selcom/Wittur, round door to TSG V4

1.3 Version information

The version number of these conversion instructions is shown on the front page and footer of each page.

Always retain and use the latest version of all documents.

Using an outdated version of this and any required and supplementary documentation can lead to incorrect assembly.

1.4 Contact information

See page 2.

1.5 Customers for whom these instructions are intended

These conversion instructions are directed at end customers of Langer & Laumann Ing.-Büro GmbH.

In addition to reading these conversion instructions, the following requirements and previous technical knowledge of the user is required for correct operation of the device:

- comprehensive technical knowledge of the existing facilities
- knowledge of the operating manuals of these facilities
- Classification as skilled personal

1.6 Other applicable documents

The following documents are required for work not described in these conversion instructions:

- Fitting instructions for the door control unit with information on electrical connection, fitting and commissioning
- Information on components not manufactured and supplied by Langer & Laumann

2 Safety

2.1 General safety instructions

Personnel must have carefully read and understood these conversion instructions before starting the conversion work.

The safety instructions and guidelines specified in these conversion instructions must be observed.

The accident prevention regulations applicable at the place of use and general safety regulations must be observed.

2.2 Personnel requirements

2.2.1 Personnel qualification and scope of work

The tasks described in this manual set different requirements for the qualification of the assigned personnel. Inadequately qualified employees are not able to correctly assess the risks and expose themselves and others to the risk of injuries. It is prohibited for inadequately qualified personnel to be in the working/danger zone. Persons whose ability to respond is influenced, for example, by drugs, alcohol or medication may not work on the facility.

Skilled personnel Work on mechanical components may only be carried out by suitably qualified skilled personnel (lift installer for defined tasks in lift construction according to DGUV 303-001).

Electrically skilled personnel Work on electrical components may only be carried out by electrically skilled personnel or lift installers with further training as an electrically skilled person for defined tasks in lift construction according to DGUV 303-001.

2.2.2 Personal protective equipment

Personal protective equipment is used to protect people against health and safety impairments during their work. The specified protective equipment must be worn.

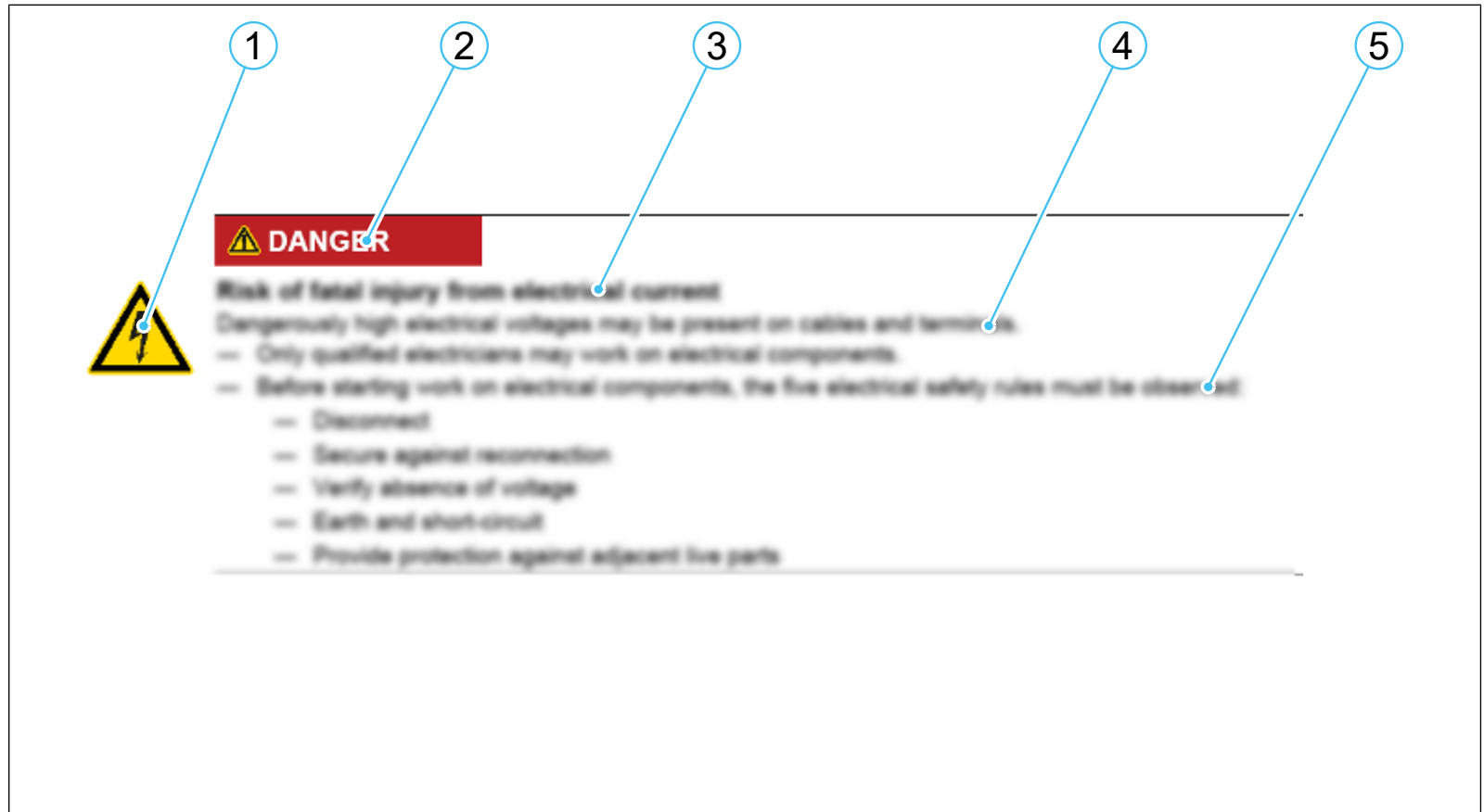
Symbol	Meaning
	Wearing protective work clothing protects against hazards in the workplace.
	Wearing slip-resistant safety footwear protects against injuries to the feet.
	Wearing cut and puncture-resistant protective gloves protects against injuries to the hands.
	Wearing a protective cap protects against head injuries.
	Wearing goggles protects against eye injuries.
	Wearing hearing protection protects against hearing damage.
	Wearing a fall arrest system protects against falls.

Table 1: Personal protective equipment

2.3 Warnings

2.3.1 Structure of warning notices

All warning notices in this document are structured as follows:



1	Hazard symbol	2	Signal word
3	Type and source of hazard	4	Possible consequences of non-observance
5	Procedure for hazard prevention		

2.3.2 Meaning of the signal words and symbols

The following signal words are used in this document:

Signal word	Meaning, consequences if not prevented
DANGER	Warns of an imminent hazardous situation which results in death or serious injury.

Table 2: Meaning of the signal words

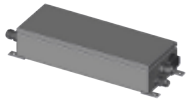
The following hazard-specific symbols are used in this document:

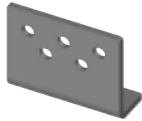
Symbol	Designation
	Automatic start-up
	Electrical hazard

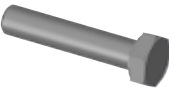
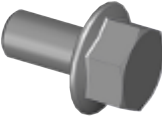
Table 3: Meaning of the hazard-specific symbols

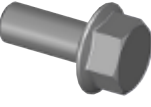
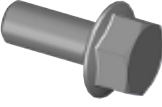
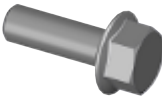
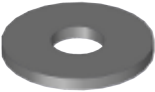
3 In the box

The conversion kit components are shown in the table. The position numbers are used in the following chapters to identify the individual components. For logistical reasons, the packaging can contain further components that are not required for actual use.

Pos.	Illustration	Item number	Description	Quantity
P001		8.20.xxxxx.04	TSG electronics	1
P002		8.20.400xx.xx	TSG motor	1
P003		8.20.60002.xx	Timing belt 8M	1
P004		1.20.30200	Double timing belt pulley 8M/8M	1
P005		1.20.60003	Deflection pulley D = 56 mm, 8M	1
P006		1.20.60004	Rectangular plate	1
P007		1.20.60005	Timing belt lock, L-shaped	1

Pos.	Illustration	Item number	Description	Quantity
P008		1.20.60013	L-shaped bracket	1
P009		1.20.60040	L-shaped bracket	1
P010		1.20.60075	L-shaped bracket	1
P011		1.20.60110	L-shaped bracket	1
P012		1.20.60160	Timing belt pulley D = 56 mm, 8M	1
P013		1.20.60350	Star-shaped motor bracket	1
P014		1.20.61140	Endless timing belt 8m	1
P015		1.20.92020	L-shaped bracket	1

Pos.	Illustration	Item number	Description	Quantity
P016		1.36.00008	Button head screw M4 × 20 mm	1
P017		1.36.00115	Hexagon head screw M8 × 40 mm	2
P018		1.36.00135	Locking screw M6 × 12 mm	1
P019		1.36.00169	Spring washer M8	1
P020		1.36.00332	Countersunk screw M4 × 10 mm	1
P021		1.36.00358	Countersunk screw M6 × 12 mm	4
P022		1.36.00455	Nut M4	1
P023		1.36.00501	Nut M8	9

Pos.	Illustration	Item number	Description	Quantity
P024		1.36.00520	Mushroom head square neck screw M8 × 25 mm	3
P025		1.36.00710	Locking screw M8 × 16 mm	4
P026		1.36.00720	Locking screw M8 × 20 mm	6
P027		1.36.00725	Locking screw M8 × 25 mm	2
P028		1.36.01035	Washer M8	1

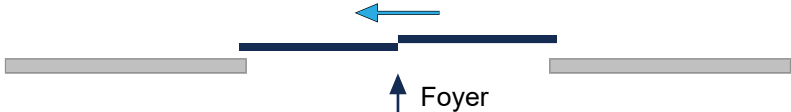
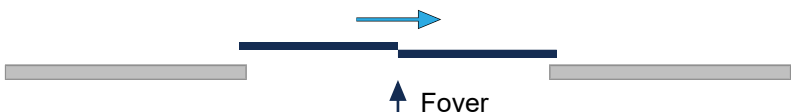
4 Required tools

The tools required for the conversion are shown in the table. The position numbers are used in the following chapters to identify the individual tools.

Pos.	Symbol	Description
T001		Soft face hammer
T002		Hammer
T003		Puller for bearings and pinions
T004		Pipe wrench
T005		Side cutters
T006		Circlip pliers
T007		Angle grinder
T008		Measuring tool (folding rule or measuring tape)
T009		Slotted screwdriver
T010		Phillips screwdriver
T107		Combination spanner, SW 7
T110		Combination wrench, size 10
T113		Combination wrench, size 13
T130		Combination spanner, SW 30
T204.0		Allen key, size 4
T604.5		Drill bit, Ø 4.5 mm
T608.5		Drill bit, Ø 8.5 mm

5 Definition of door opening directions

The possible door opening directions are shown in the following table in schematic form.

L: Left opening	
R: Right opening	
TL: Telescopic left opening	
TR: Telescopic right opening	
Z: Center opening	
ZT: Center telescoping opening	
FD: Folding door	

6 Disassembly of existing components

DANGER



Danger to life from rotating/moving system components

- Before starting work, switch off the system completely.
- Keep away from unsecured rotating/moving system components.

DANGER



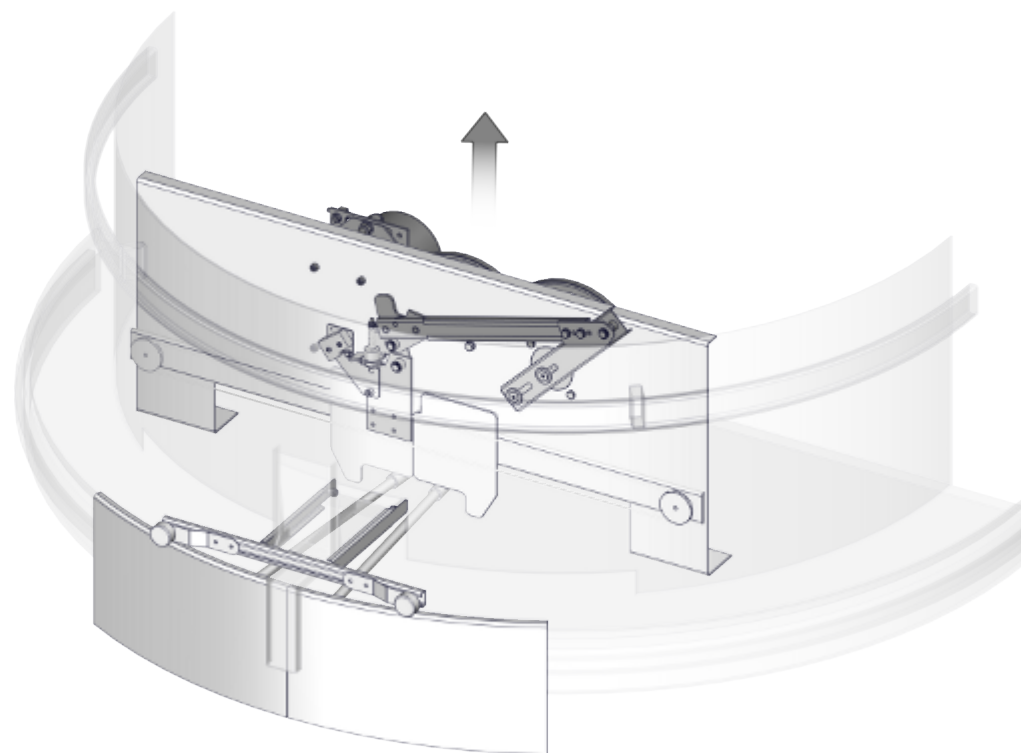
Risk of fatal injury from electrical current

Dangerously high electrical voltages may be present on cables and terminals.

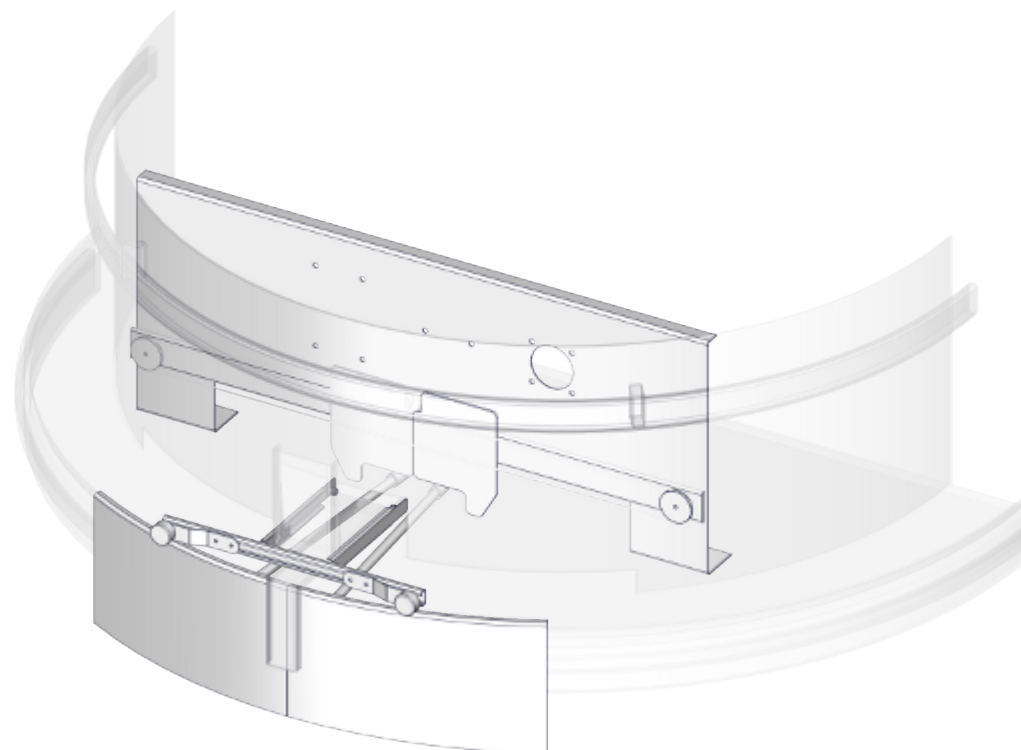
- Only qualified electricians may work on electrical components.
- Before starting work on electrical components, the five electrical safety rules must be observed:
 - Disconnect
 - Secure against reconnection
 - Verify absence of voltage
 - Earth and short-circuit
 - Provide protection against adjacent live parts

Tools

Pos.	Symbol	Description
T002		Hammer
T003		Puller for bearings and pinions
T004		Pipe wrench
T005		Side cutters
T006		Circlip pliers
T007		Angle grinder
T1xx		Combination spanners, as needed



Shows the components to be dismantled.



7 Installation

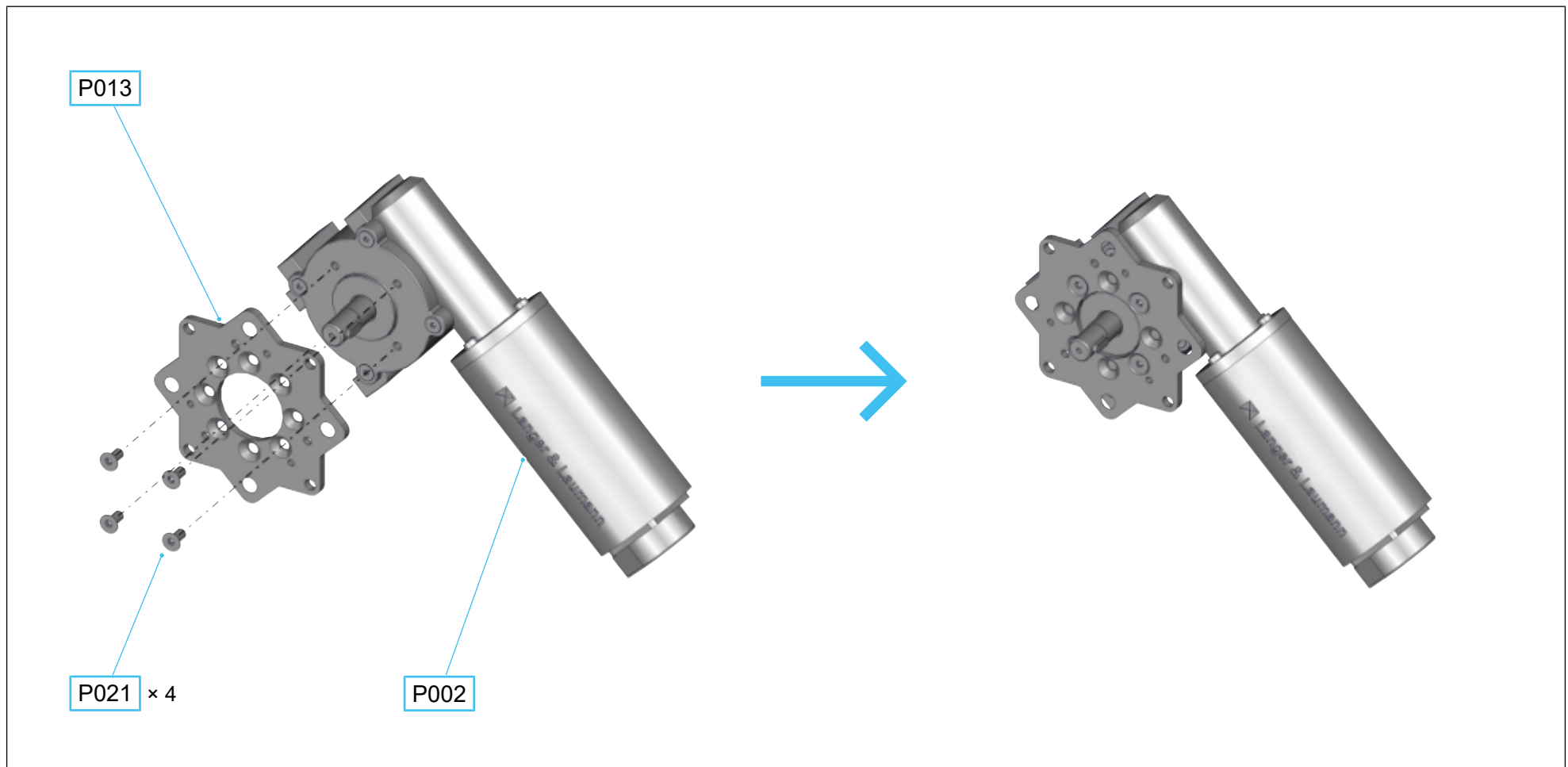
7.1 Mounting the motor on the door frame

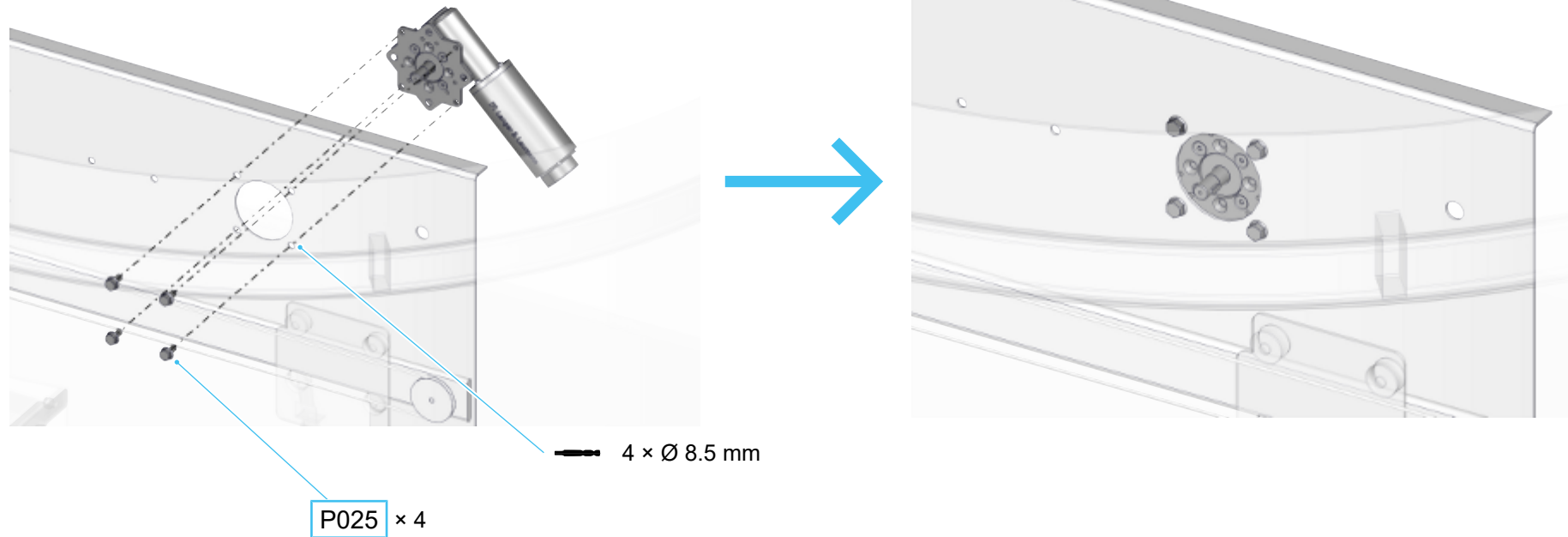
Components

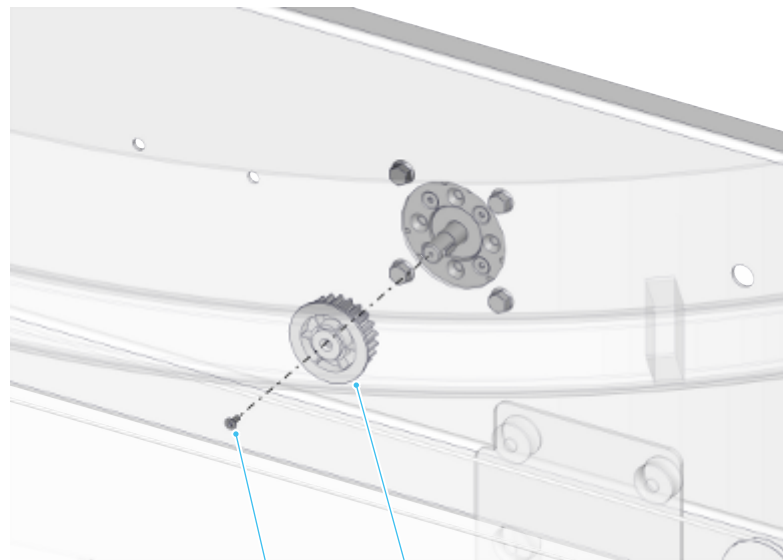
Pos.	Illustration	Item number	Description	Quantity
P002		8.20.400xx.xx	TSG motor	1
P012		1.20.60160	Timing belt pulley D = 56 mm, 8M	1
P013		1.20.60350	Star-shaped motor bracket	1
P020		1.36.00332	Countersunk screw M4 × 10 mm	1
P021		1.36.00358	Countersunk screw M6 × 12 mm	4
P025		1.36.00710	Locking screw M8 × 16 mm	4

Tools

Pos.	Symbol	Description
T010		Phillips screwdriver
T113		Combination wrench, size 13
T204.0		Allen key, size 4
T608.5		Drill bit, Ø 8.5 mm

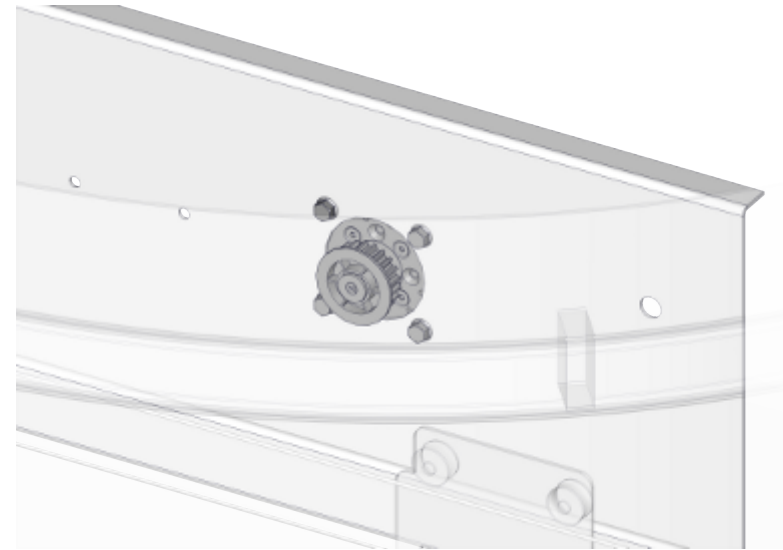


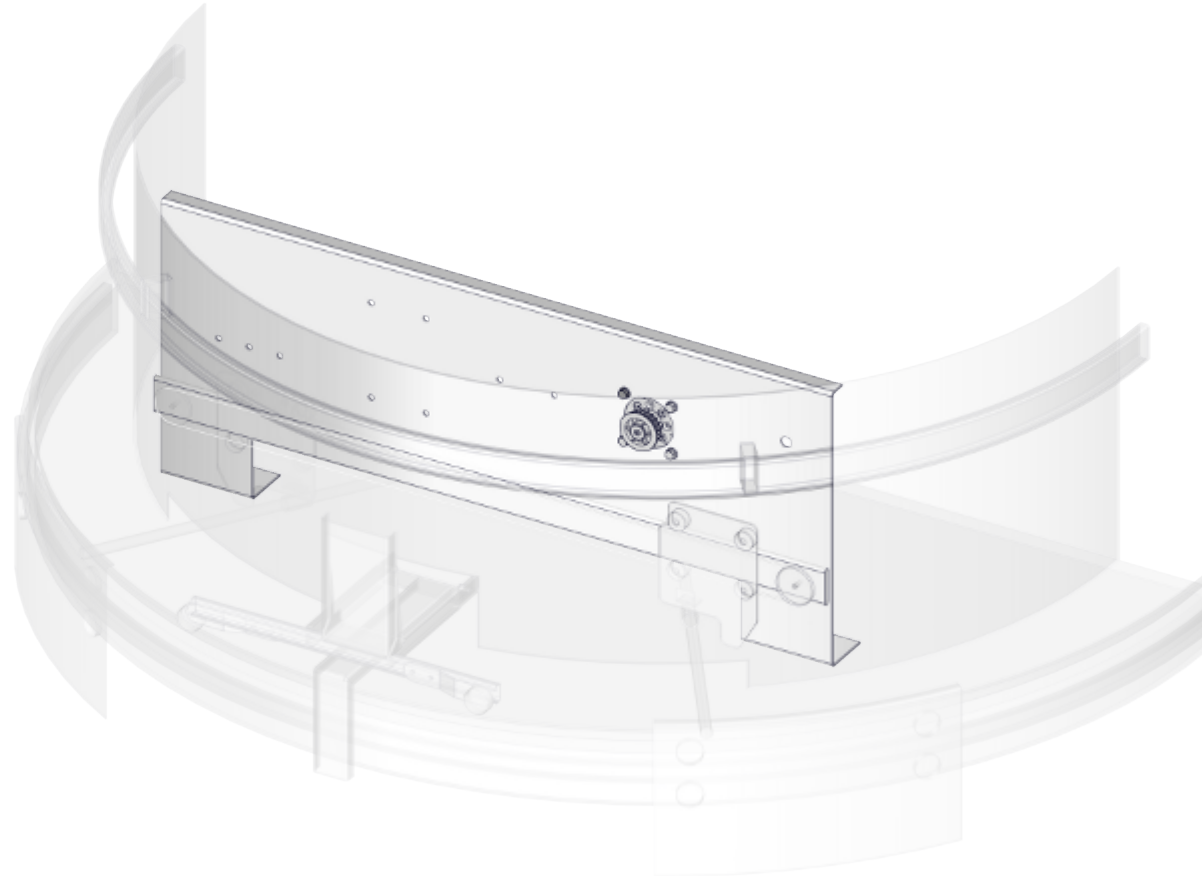




P020

P012





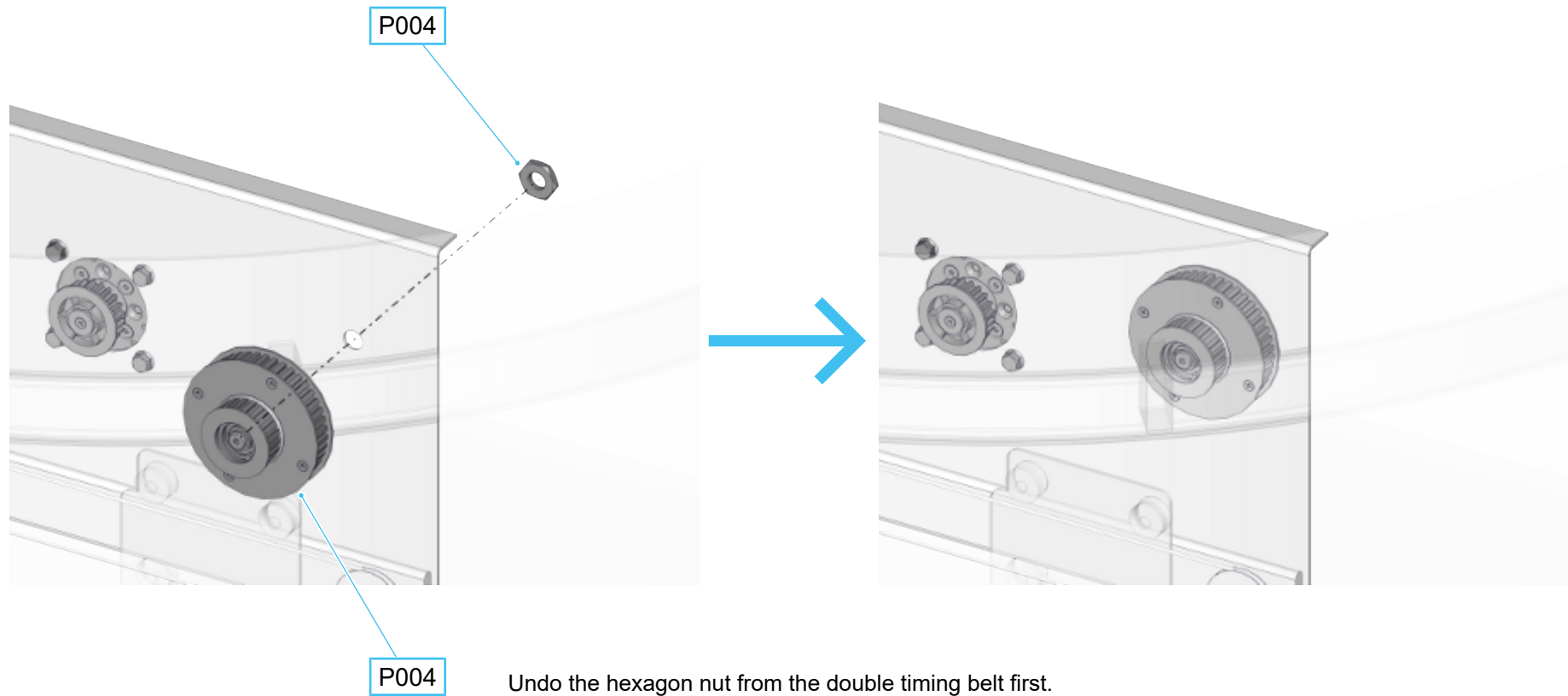
7.2 Mounting the double timing belt

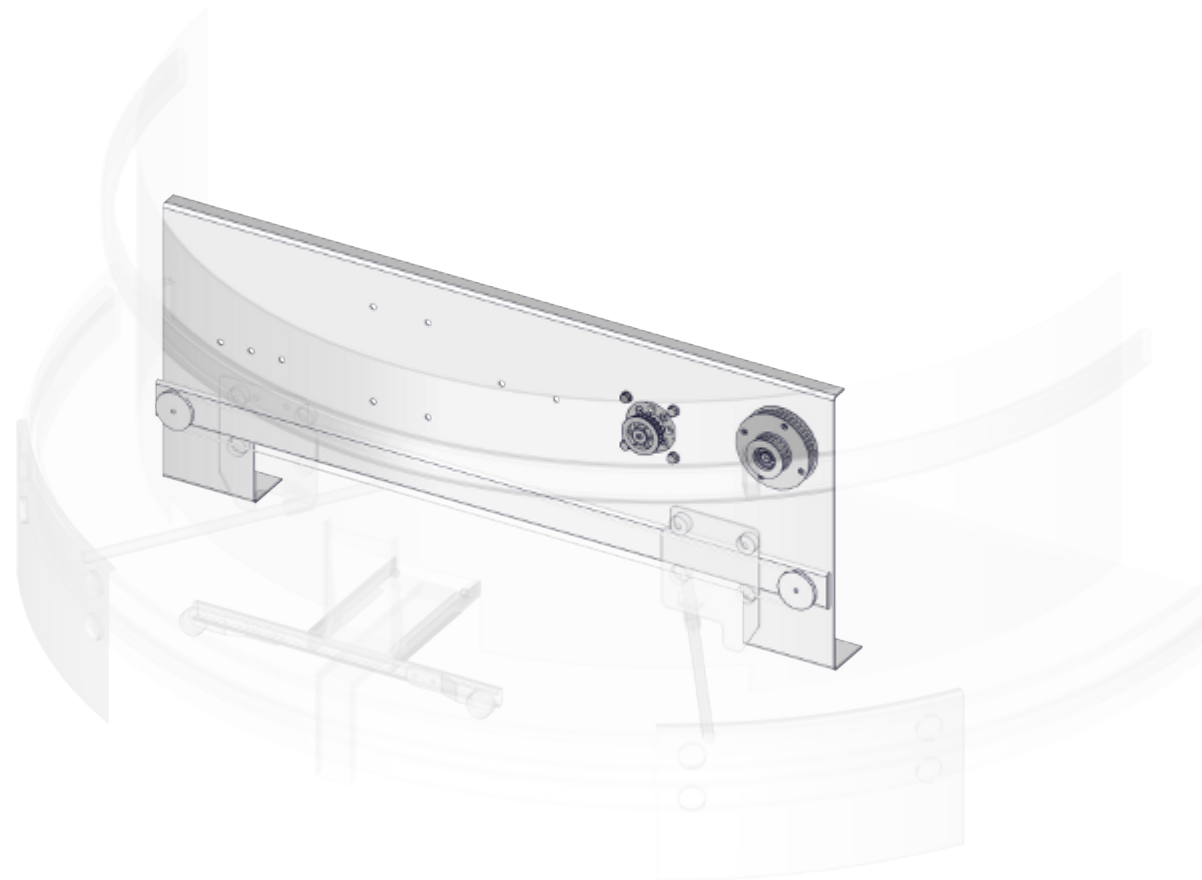
Components

Pos.	Illustration	Item number	Description	Quantity
P004		1.20.30200	Double timing belt pulley 8M/8M	1

Tools

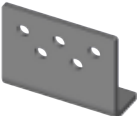
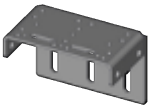
Pos.	Symbol	Description
T130		Combination spanner, SW 30

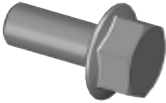




7.3 Mounting the deflection unit

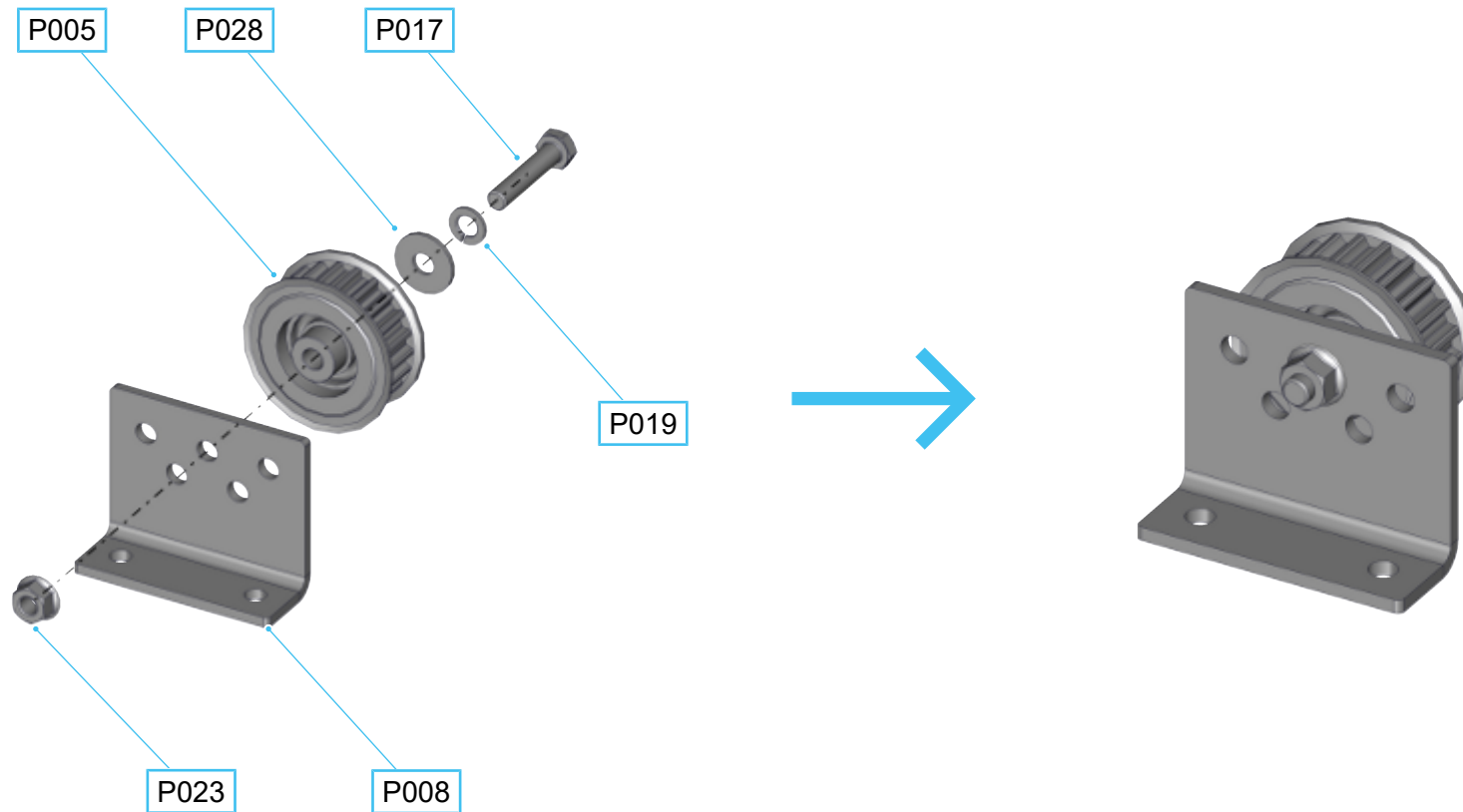
Components

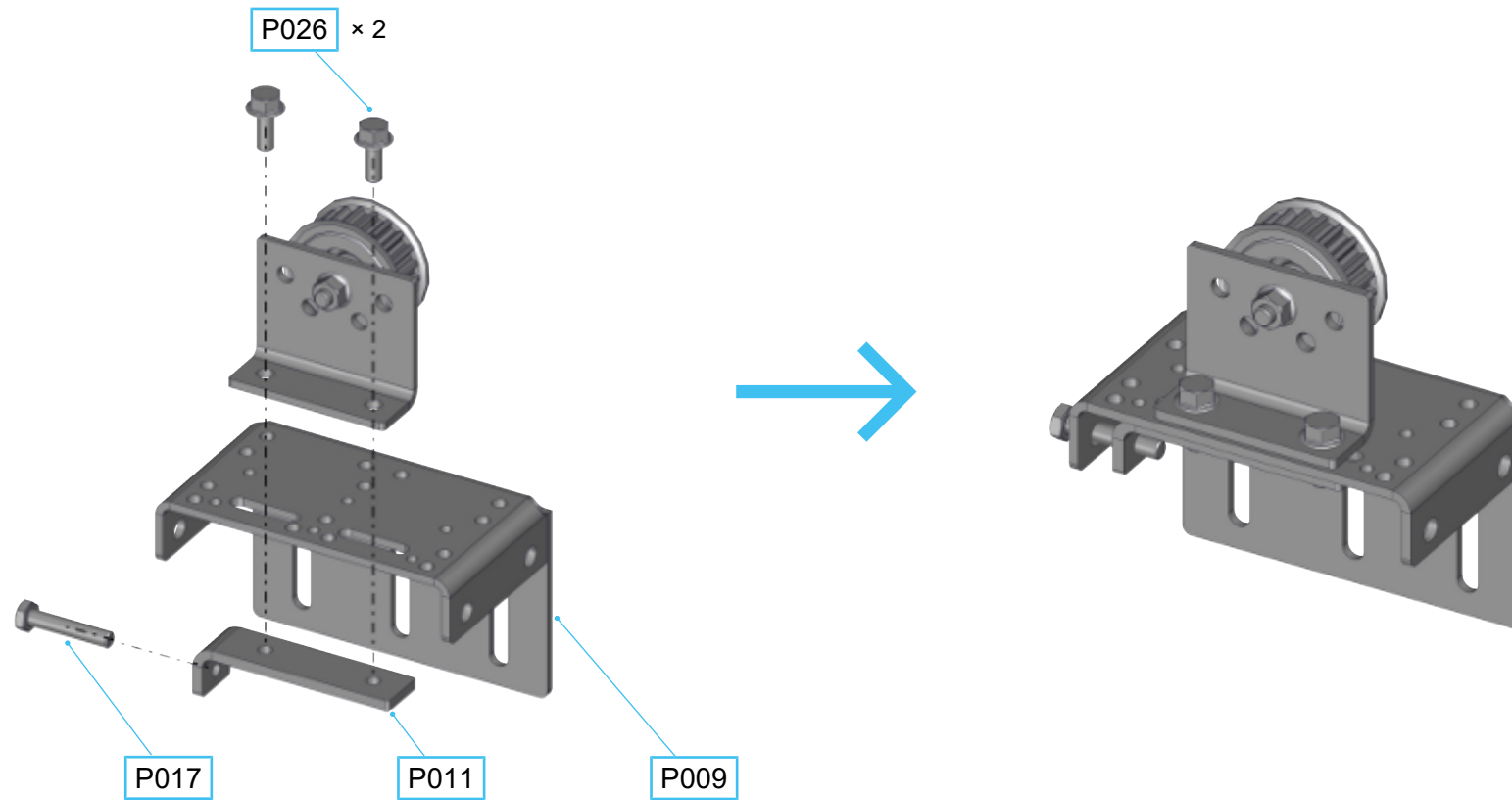
Pos.	Illustration	Item number	Description	Quantity
P005		1.20.60003	Deflection pulley D = 56 mm, 8M	1
P008		1.20.60013	L-shaped bracket	1
P009		1.20.60040	L-shaped bracket	1
P011		1.20.60110	L-shaped bracket	1
P017		1.36.00115	Hexagon head screw M8 × 40 mm	2
P019		1.36.00169	Spring washer M8	1
P023		1.36.00501	Nut M8	4

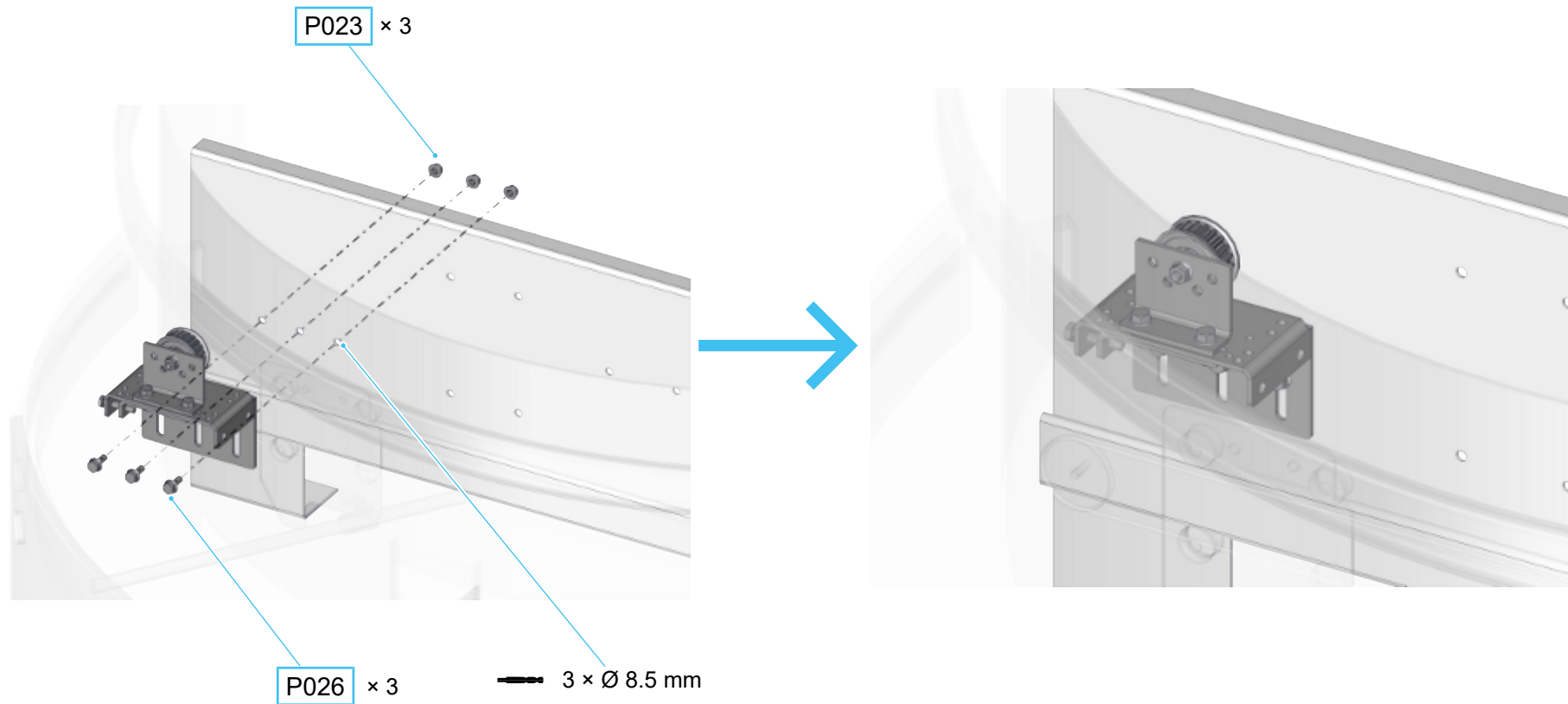
Pos.	Illustration	Item number	Description	Quantity
P026		1.36.00720	Locking screw M8 × 20 mm	5
P028		1.36.01035	Washer M8	1

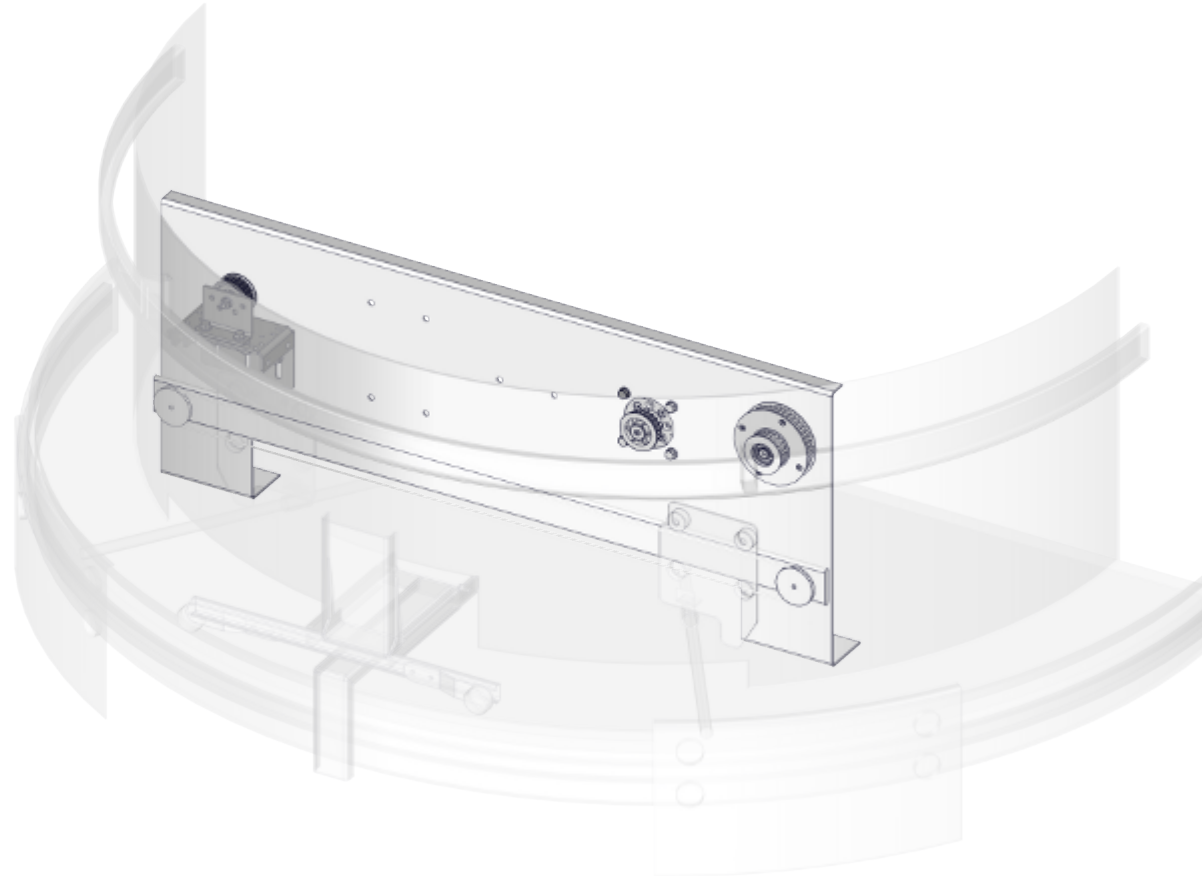
Tools

Pos.	Symbol	Description
T113		Combination wrench, size 13
T608.5		Drill bit, Ø 8.5 mm









7.4 Mounting the coupler on the door slider

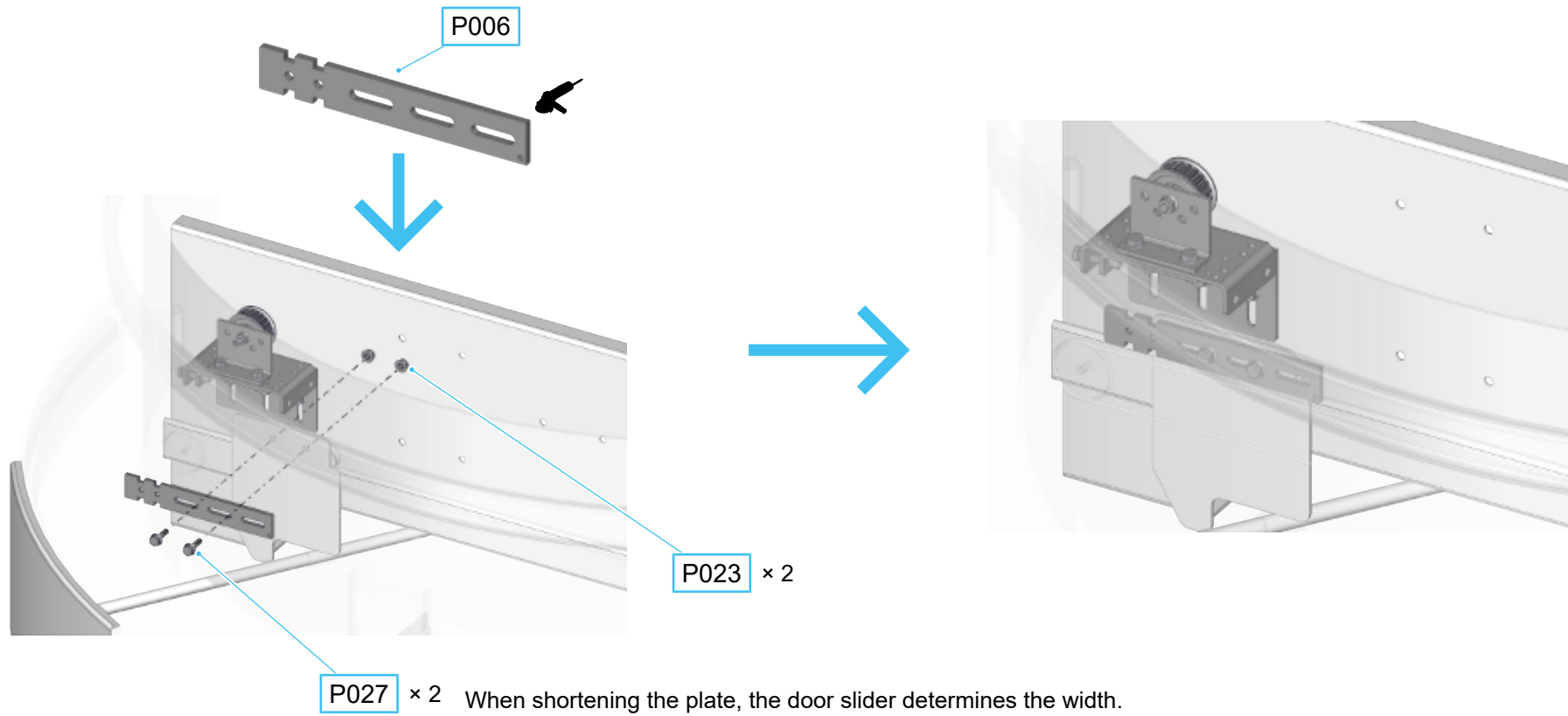
Components

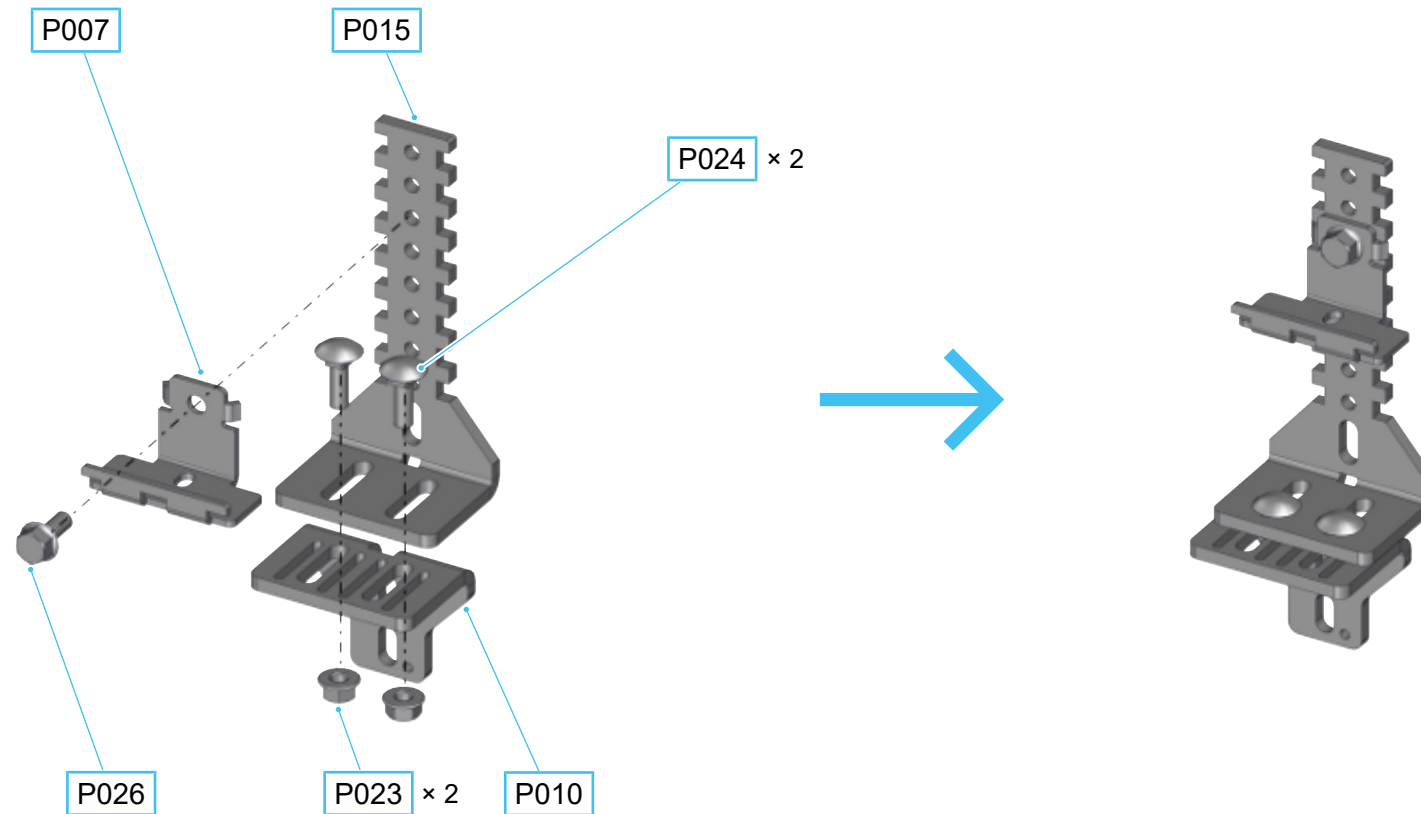
Pos.	Illustration	Item number	Description	Quantity
P006		1.20.60004	Rectangular plate	1
P007		1.20.60005	Timing belt lock, L-shaped	1
P010		1.20.60075	L-shaped bracket	1
P015		1.20.92020	L-shaped bracket	1
P016		1.36.00008	Button head screw M4 × 20 mm	1
P022		1.36.00455	Nut M4	1
P023		1.36.00501	Nut M8	5

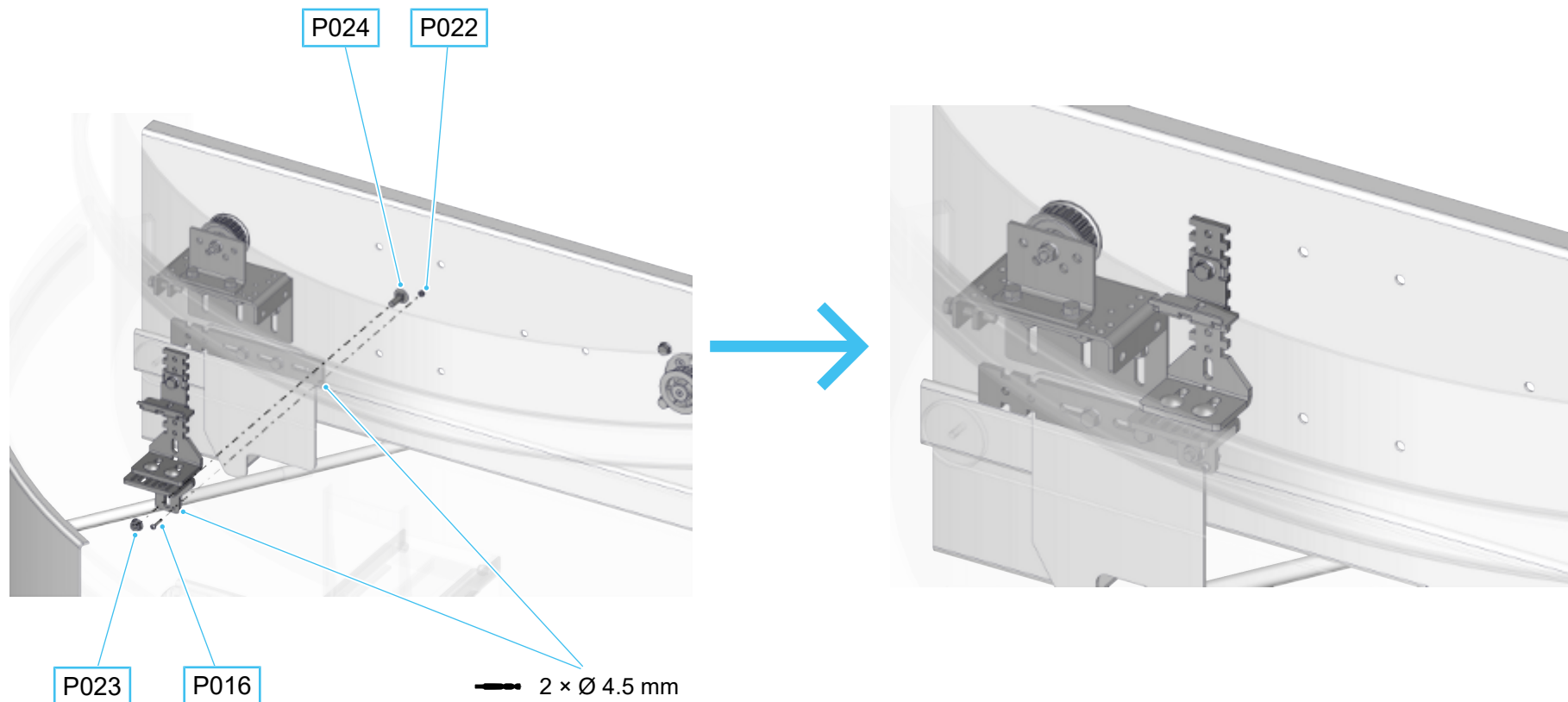
Pos.	Illustration	Item number	Description	Quantity
P024		1.36.00520	Mushroom head square neck screw M8 × 25 mm	3
P026		1.36.00720	Locking screw M8 × 20 mm	1
P027		1.36.00725	Locking screw M8 × 25 mm	2

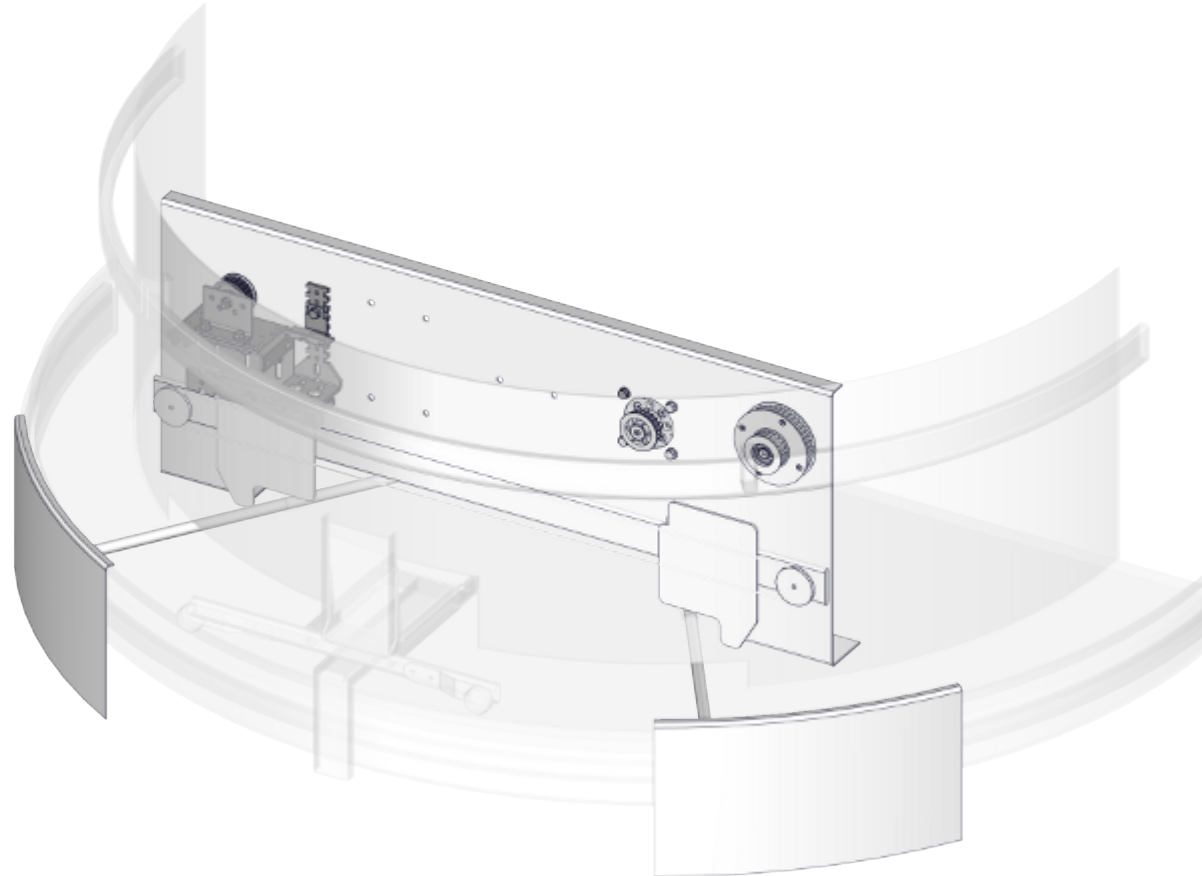
Tools

Pos.	Symbol	Description
T007		Angle grinder
T010		Phillips screwdriver
T113		Combination wrench, size 13
T604.5		Drill bit, Ø 4.5 mm



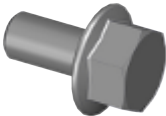






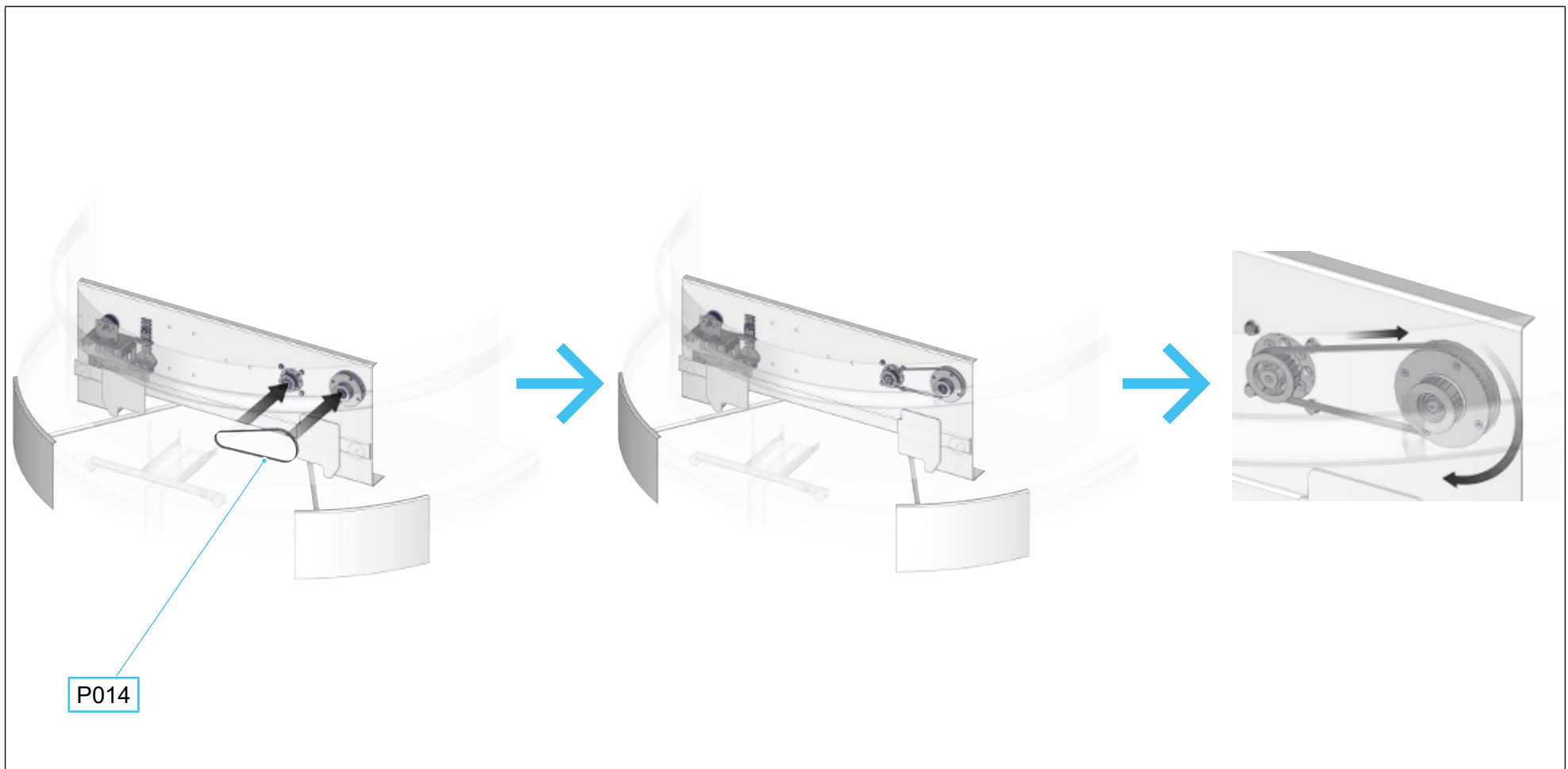
7.5 Mounting and tensioning the timing belt

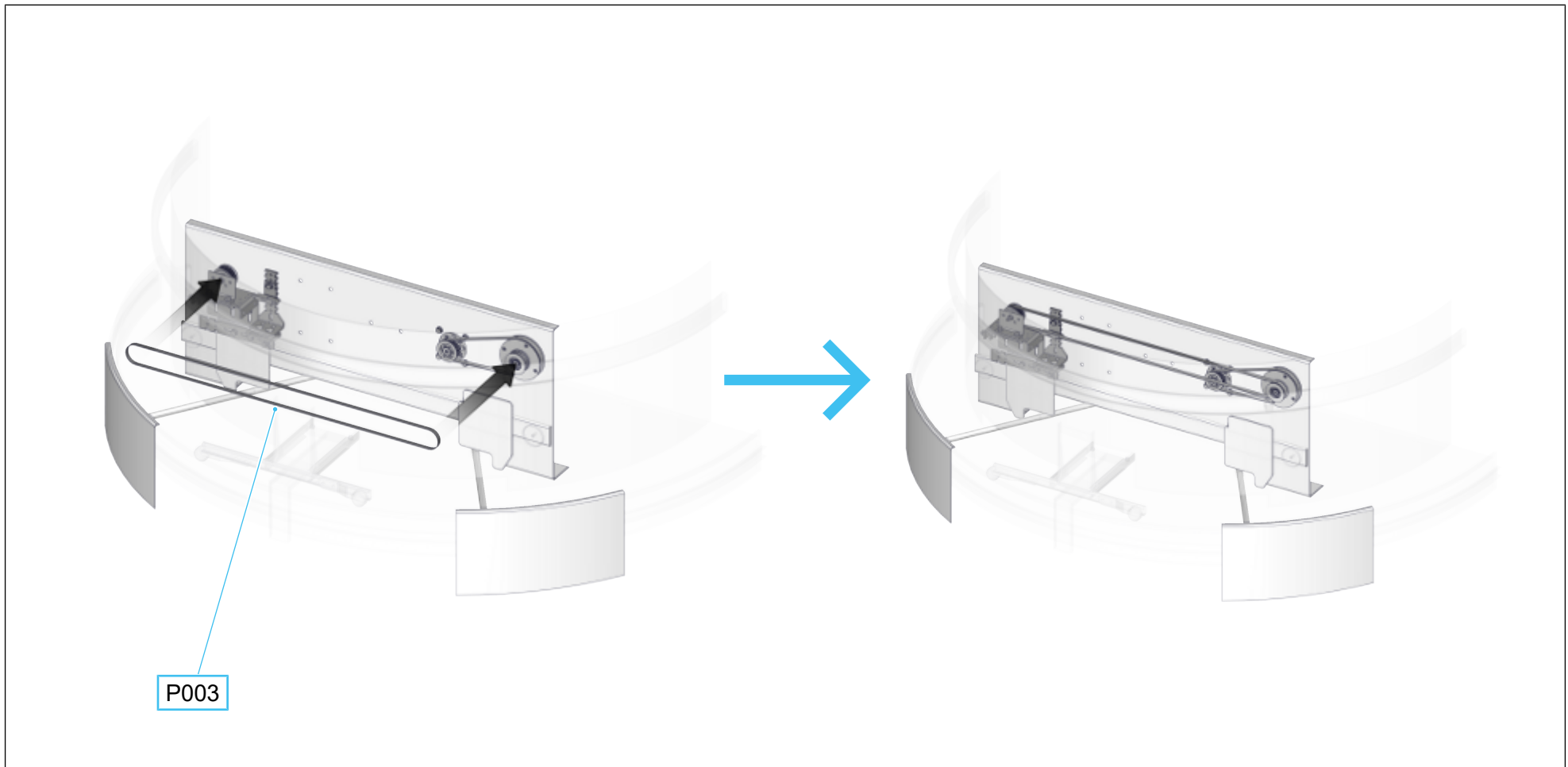
Components

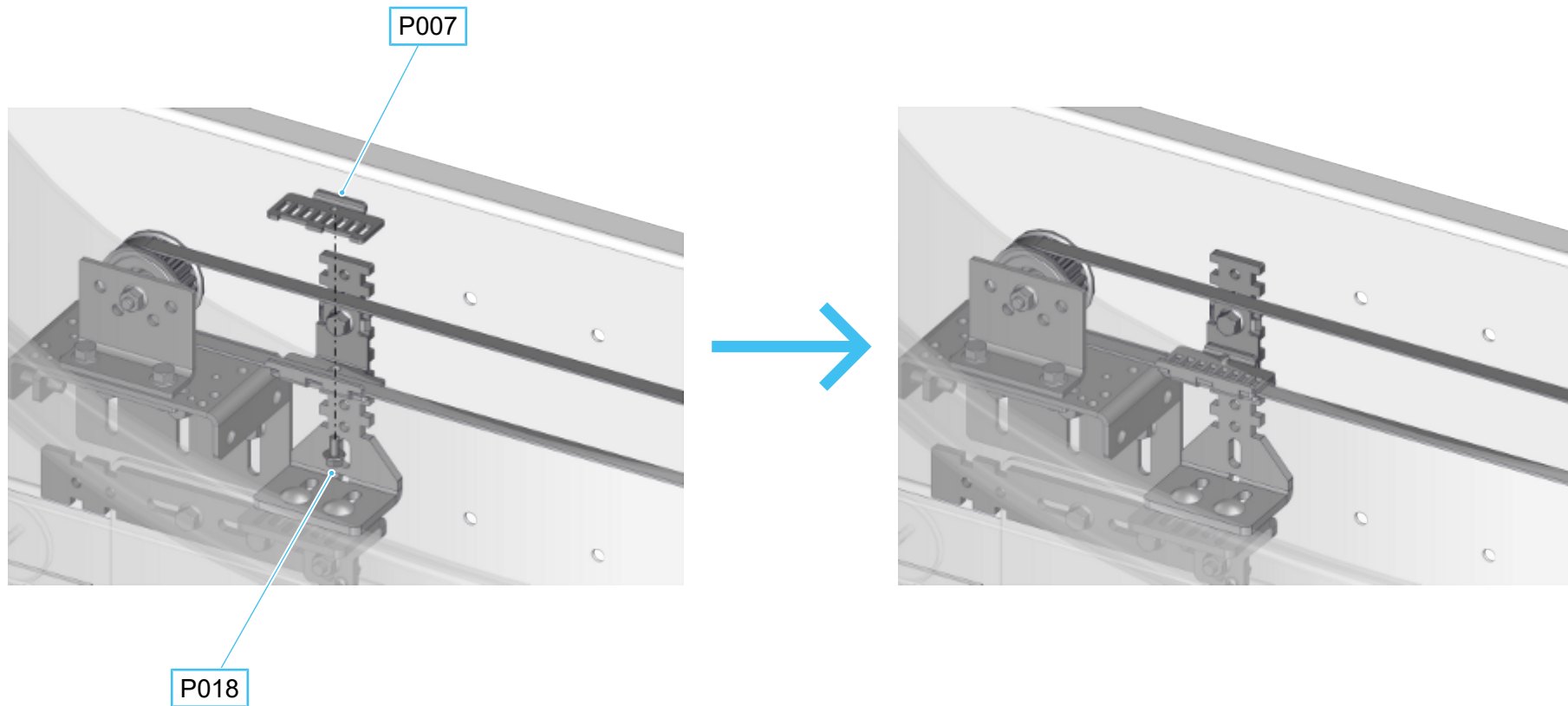
Pos.	Illustration	Item number	Description	Quantity
P003		8.20.60002.xx	Timing belt 8M	1
P007		1.20.60005	Timing belt lock, L-shaped	1
P014		1.20.61140	Endless timing belt 8m	1
P018		1.36.00135	Locking screw M6 × 12 mm	1

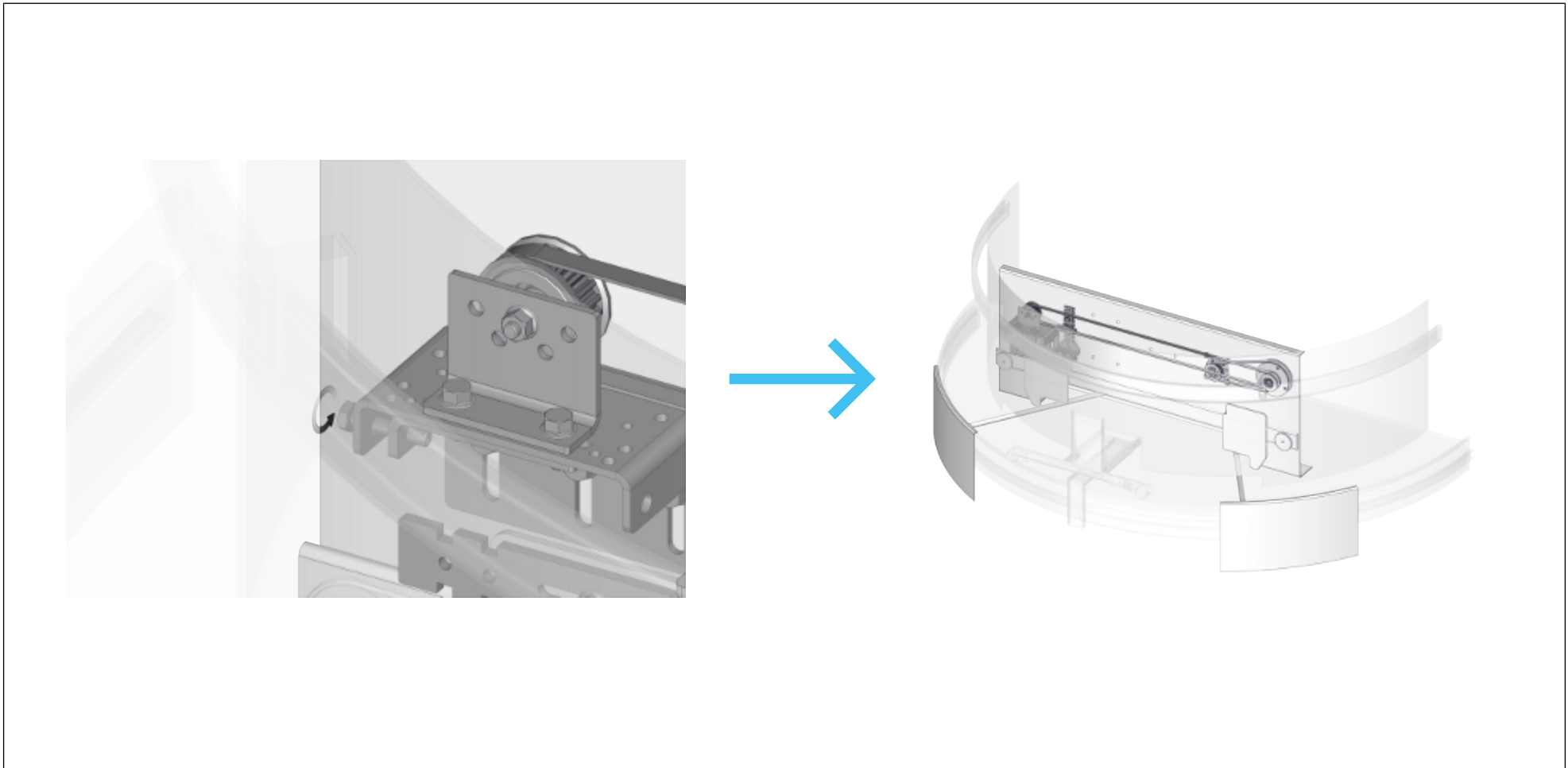
Tools

Pos.	Symbol	Description
T110		Combination wrench, size 10
T113		Combination wrench, size 13
T130		Combination spanner, SW 30









8 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.



LANGER + LAUMANN
SMART DOOR SOLUTIONS

THE RIGHT SOLUTION
FOR EVERY DOOR

