

FOR RECYCLING PURPOSES ONLY

Disassembly Instructions

Automatic Transfer Switches TruONE™ ATS, OX_30–400_



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Important information

This document shows the disassembly process of TruONE™ ATS OX_30-400_ automatic transfer switches. Accessories, such as electronic accessories Ekip com or signalling modules, auxiliary power supply module, shrouds, phase barriers and auxiliary contacts are not included. **Note! This document is for recycling purposes only.**

Safety Notes

Before starting the disassembly process it is mandatory to disconnect all sources of electrical supply and make sure that all circuits are completely de-energized.

Disassembly of automatic transfer switches must be performed by qualified and skilled personnel in the electrical field (IEV 195-04-01: person with relevant education and experience to enable him or her to perceive risks and to avoid hazards which electricity can create) and having a detailed knowledge of automatic transfer switches.

Disassembly must be done in an ergonomic workspace which can ensure the protection of the person doing the disassembling.

Applicable national legislation and international standards in force at the time of the disassembly of the automatic transfer switch must be taken into account in addition to the prescriptions illustrated in this document.

ABB declines any responsibility for injury to people or damage to property resulting from a failure to comply with the instructions set out in this document and with any applicable safety standard.

Personal Protective Equipment (PPE)

When doing the disassembling following safety Personal Protective Equipment (PPE) must be worn:

Glasses



Gloves



Safety shoes



Protective clothes



Tools

The disassembly process requires the use of tools (e.g. screwdriver, torx key, pliers). Tools to be used are specified inside each phase of the disassembly process.

Disassembly process

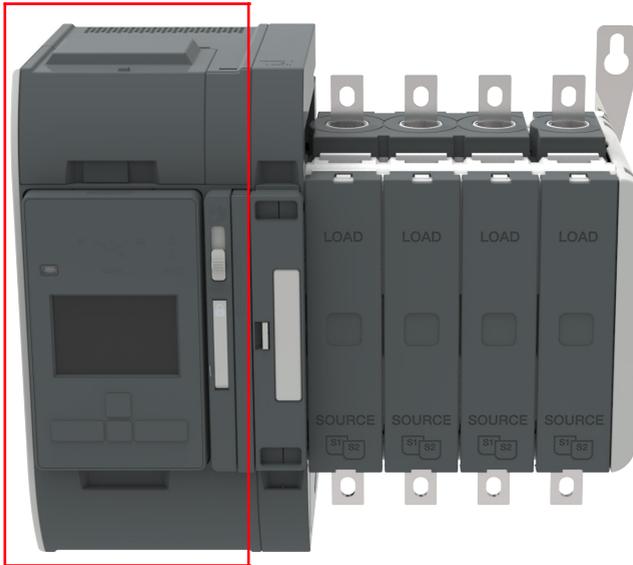
For each phase of the disassembly process the following information is provided:

- Part/parts to be disassembled (title of the phase)
- Tools to be used
- Pictures showing actions to be performed
- In case of potential hazards signal below is reported:



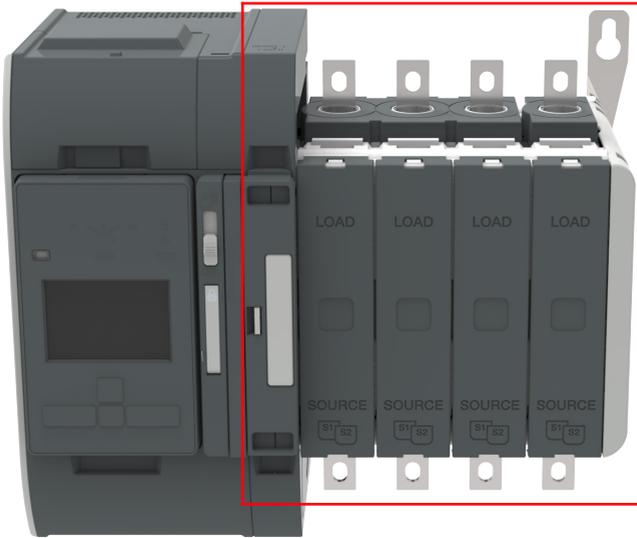
Disassembly of the automatic transfer switch

Part I – Disassembly of the mechanism, power module and controller module

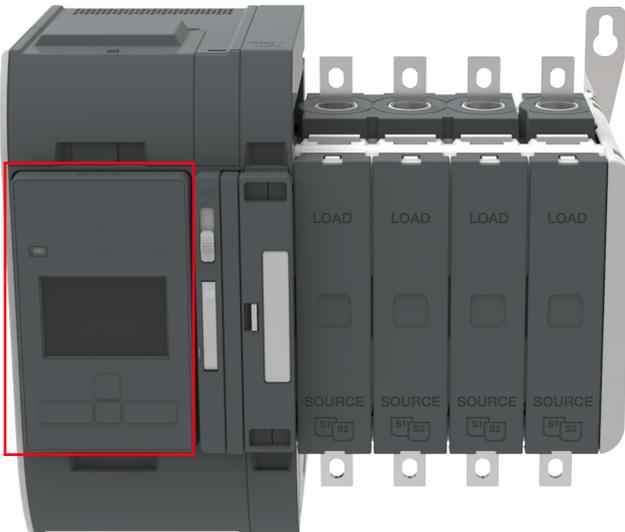




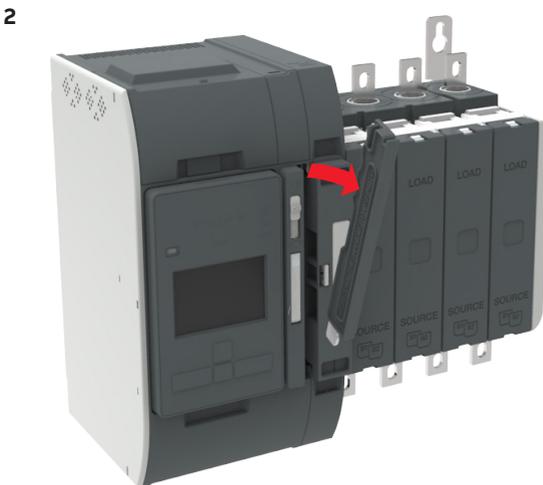
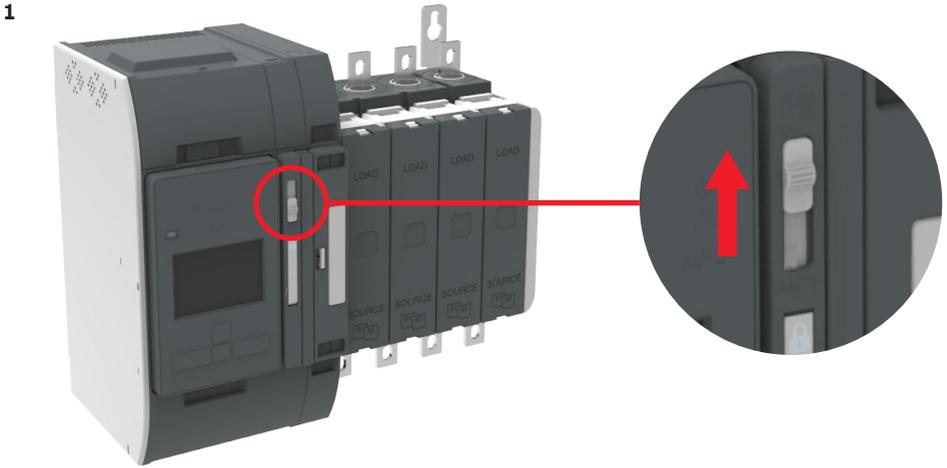
Part II – Disassembly of the poles, position indicator and sensor module



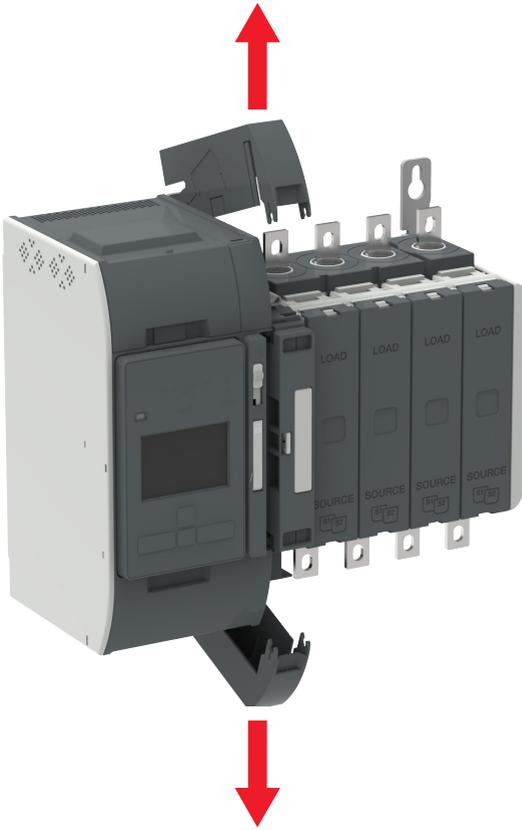
Part III – Disassembly of the HMI



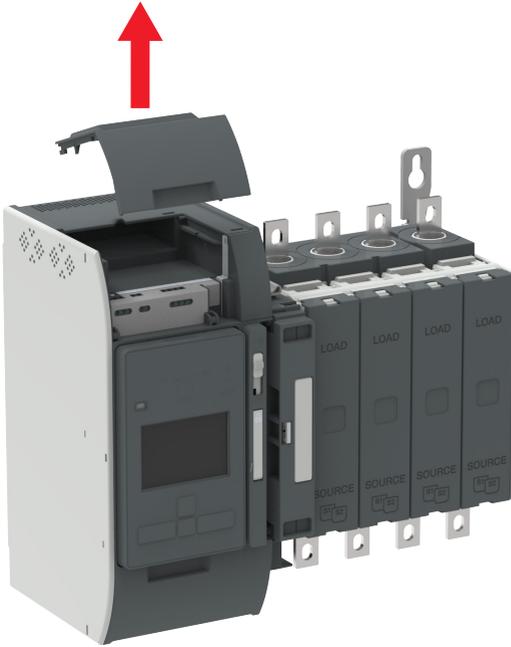
Part I – Disassembly of the mechanism, power module and controller module



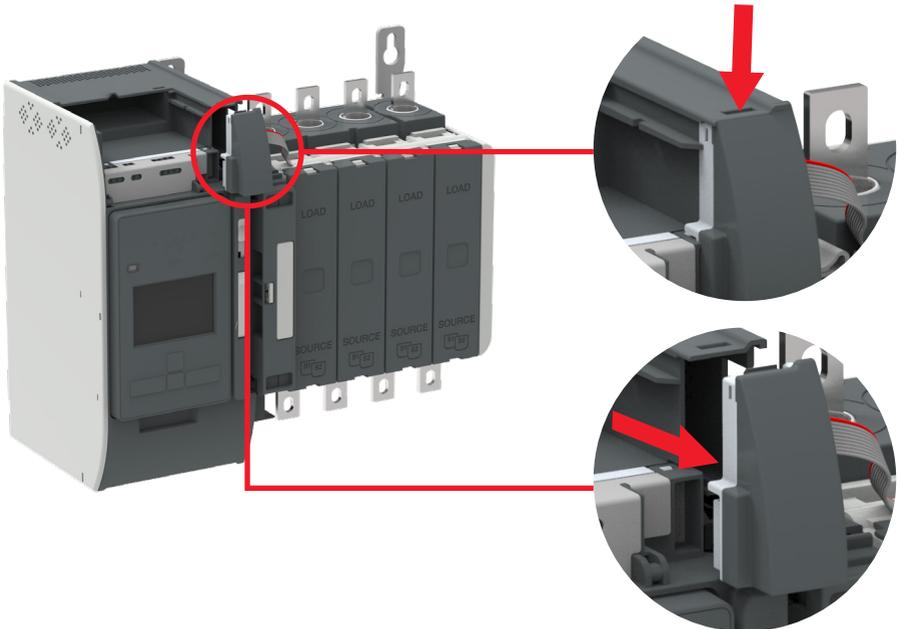
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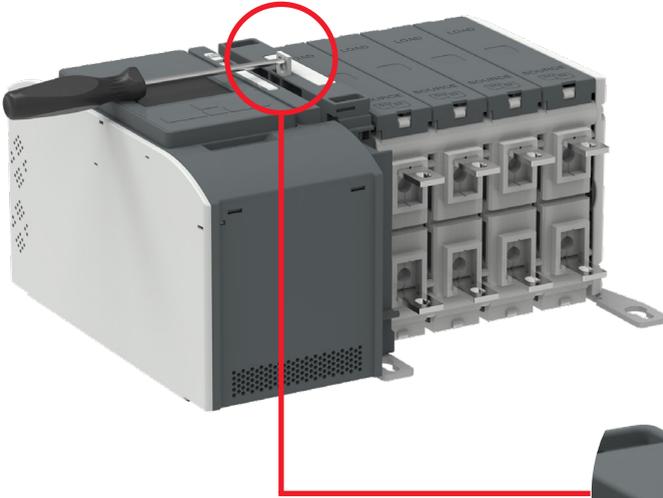
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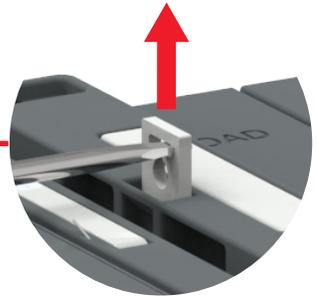


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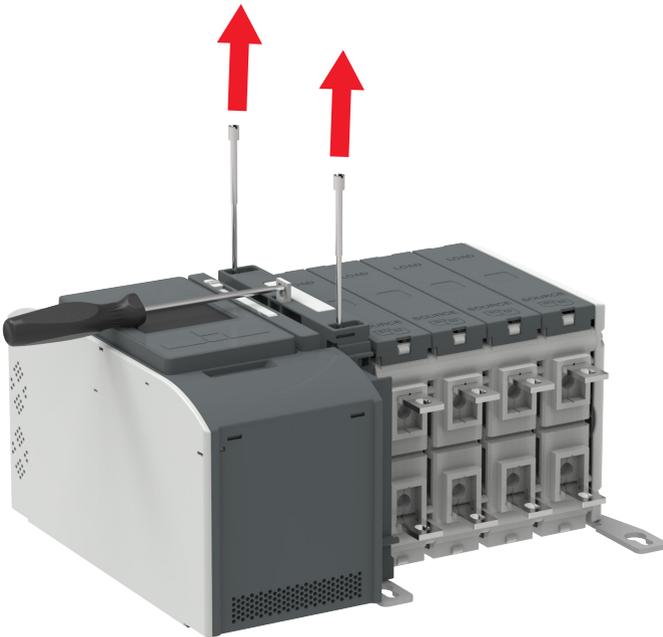


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Tools

Flat screwdriver



7

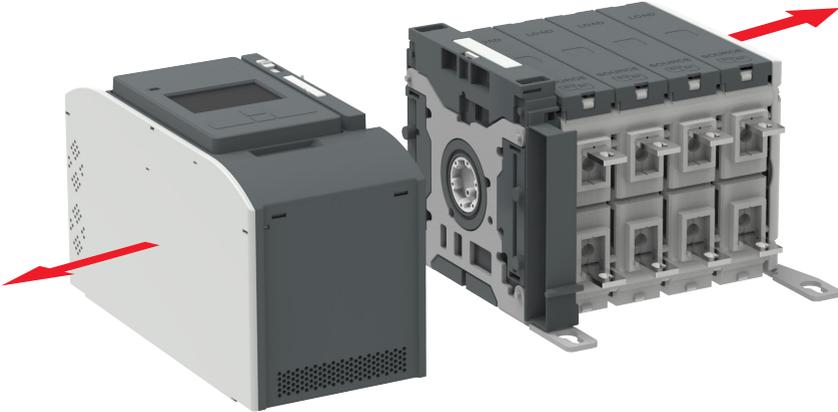


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Tools

Flat screwdriver



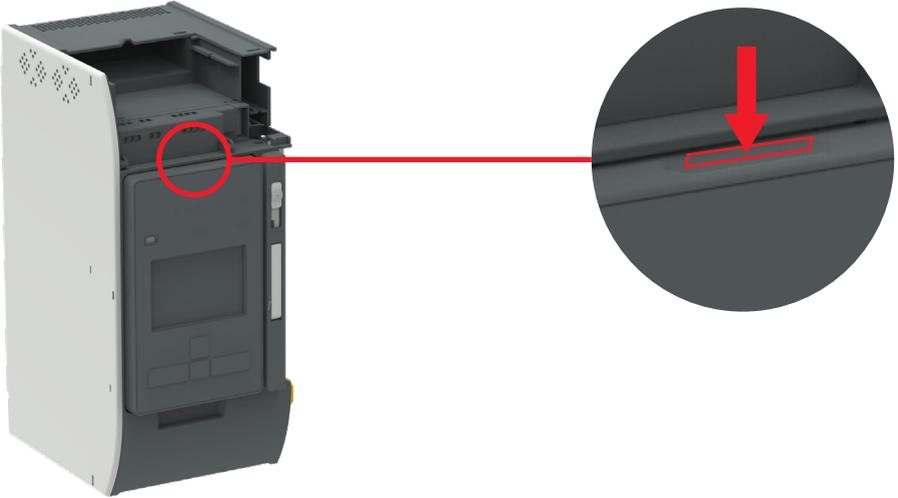
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Phase 1 – Disassembly of the controller module

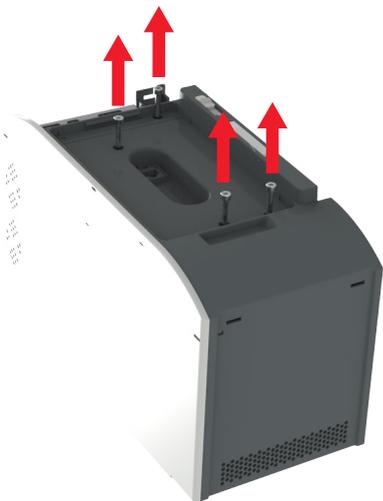
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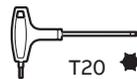


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Tools

Torx key (size 20)



T20 ★

4

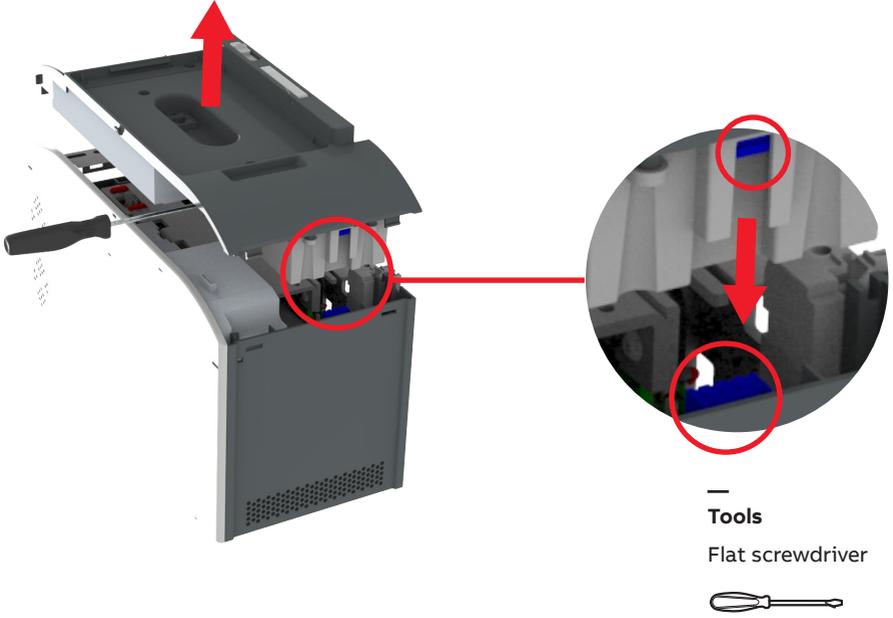


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Tools

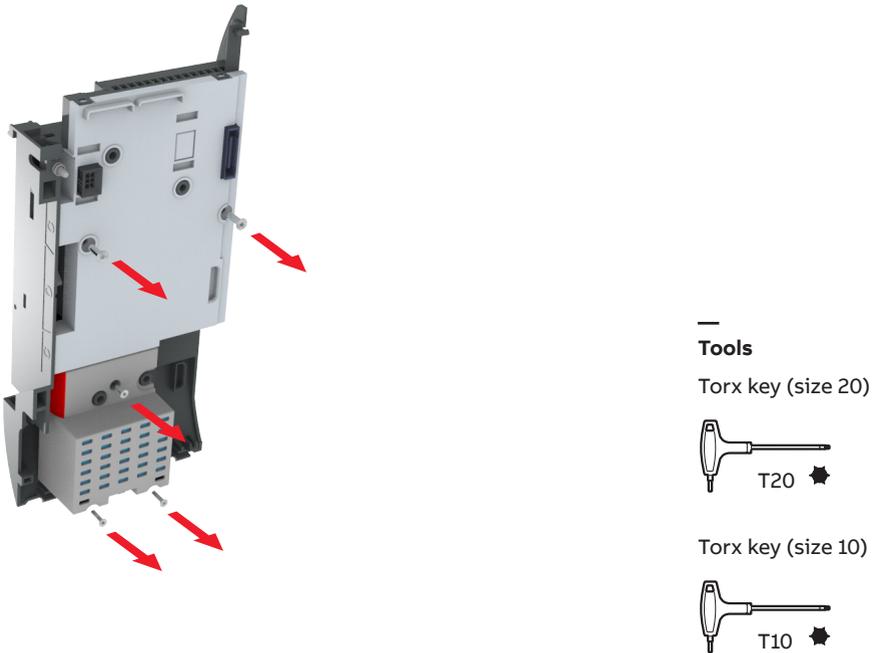
Flat screwdriver



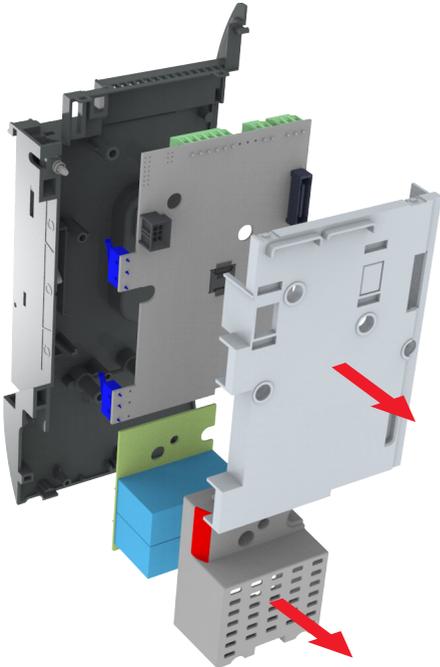
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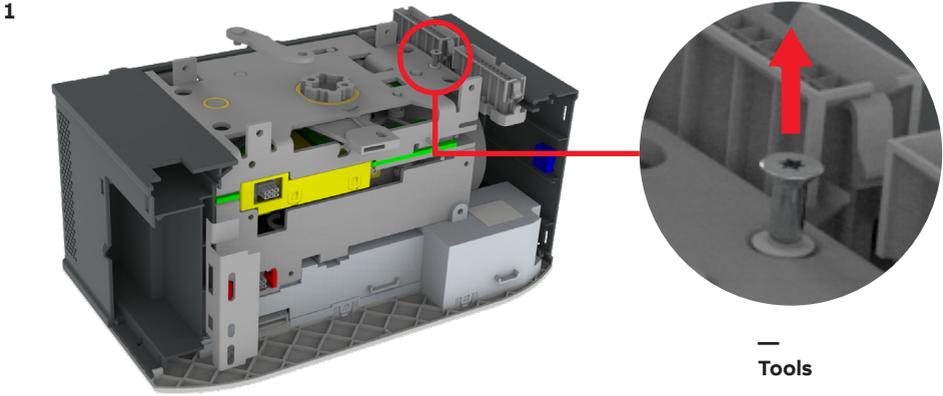
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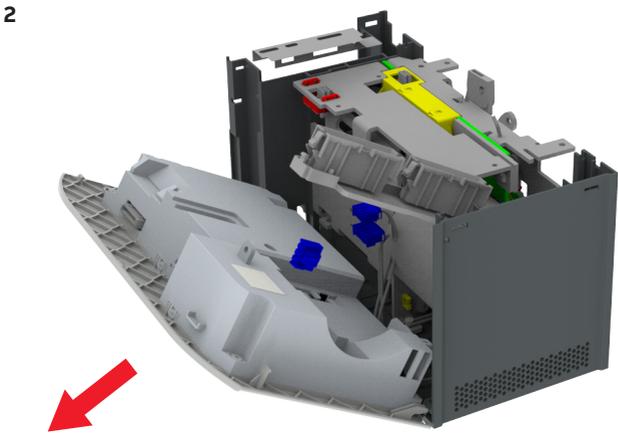
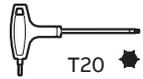
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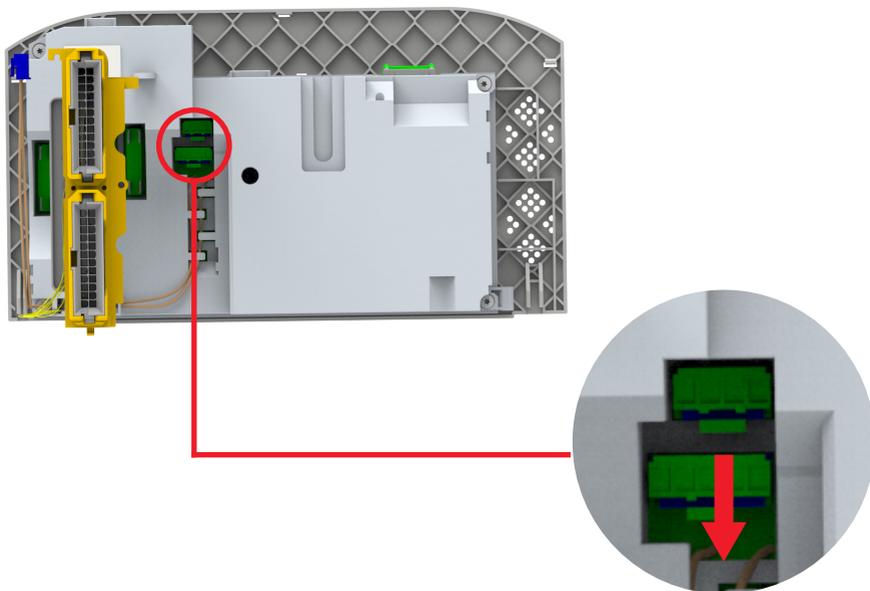
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Phase 2 – Disassembly of the power module



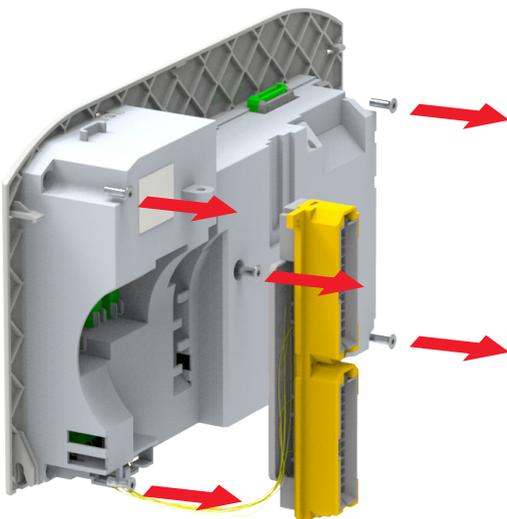
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Tools
Torx key (size 20)



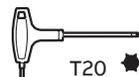
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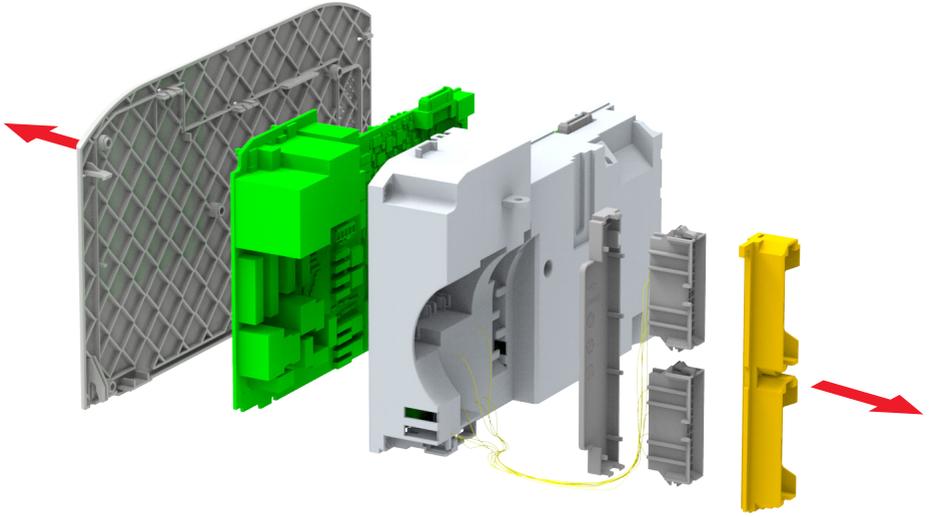
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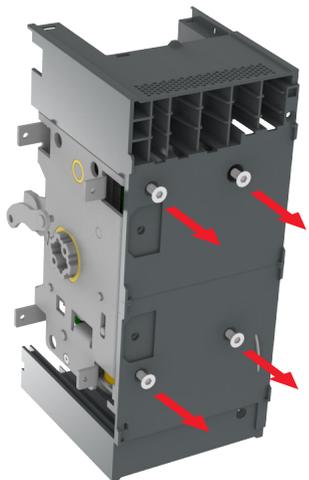


Tools
Torx key (size 20)



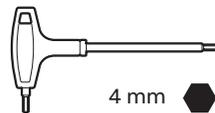
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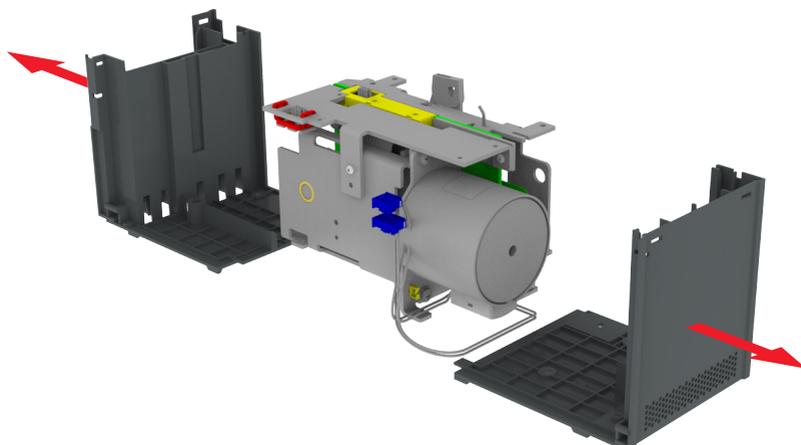
Phase 3 – Disassembly of the mechanism**1**

Tools

Allen key (size 4)

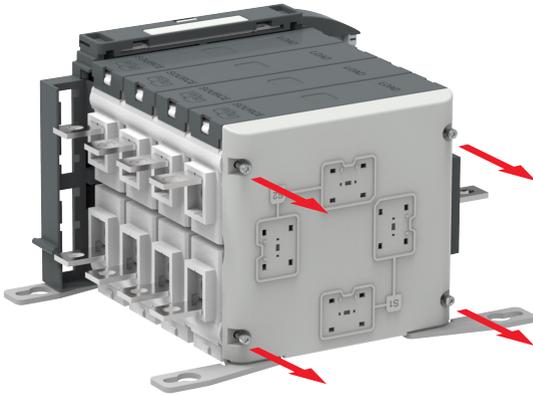


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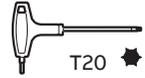
Part II – Disassembly of the poles, position indicator and sensor module

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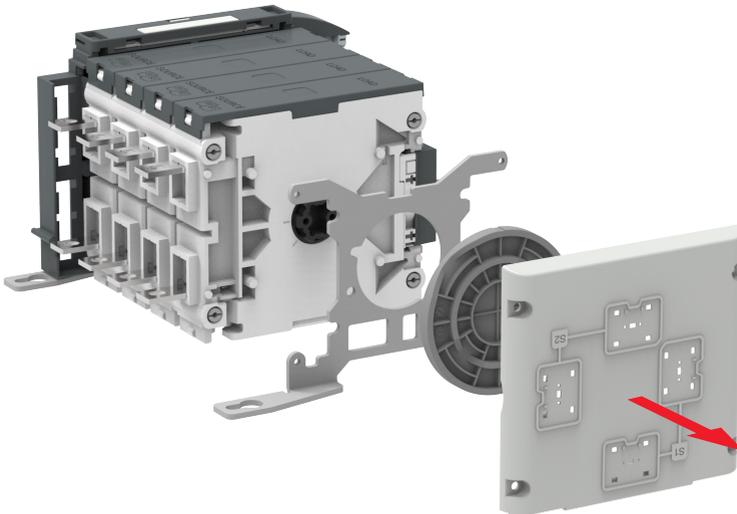


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Tools

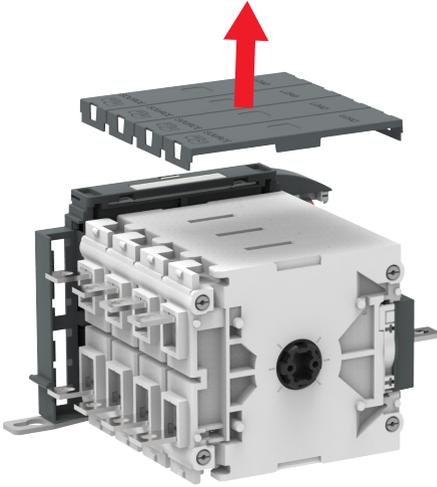
Torx key (size 20)



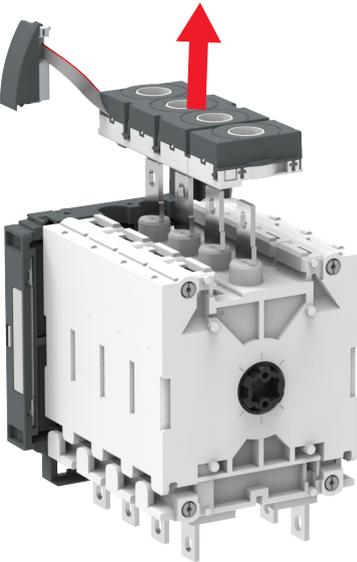
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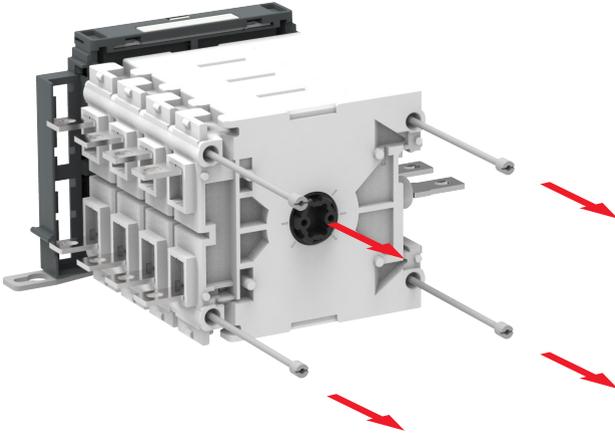
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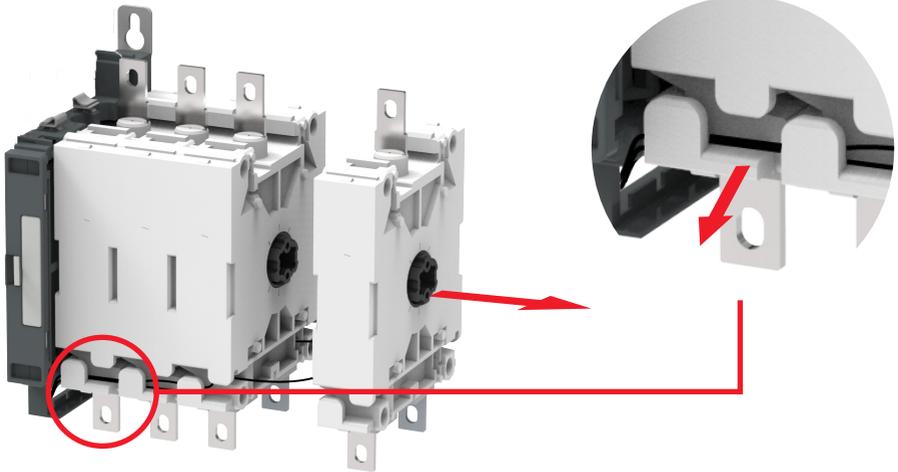


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Tools

Flat screwdriver



6



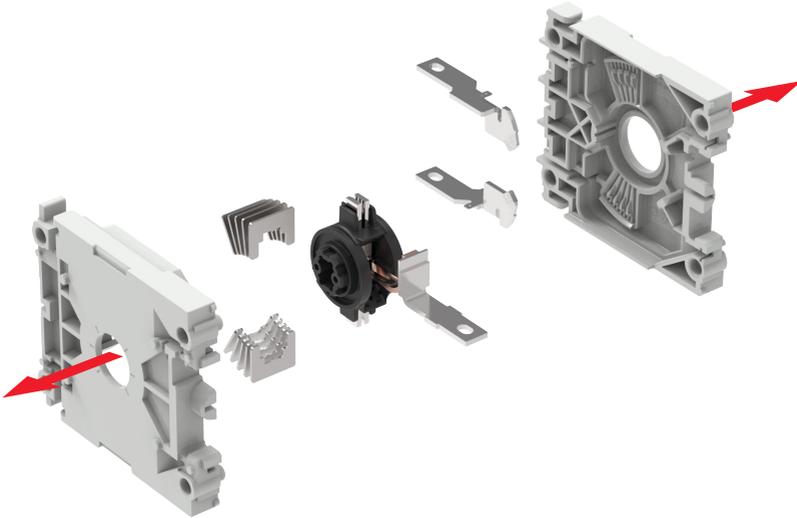
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Tools

Pliers



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Phase 1 – Disassembly of the poles

1



2

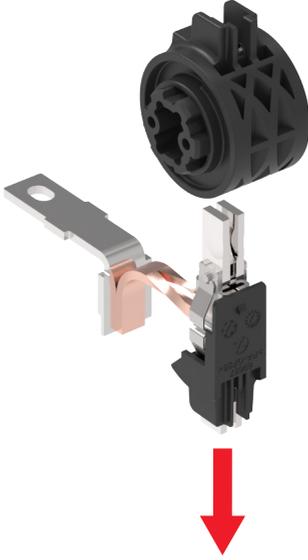


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Tools

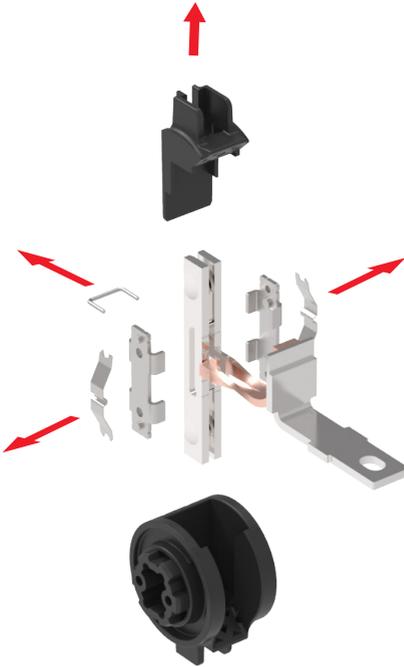
Flat screwdriver



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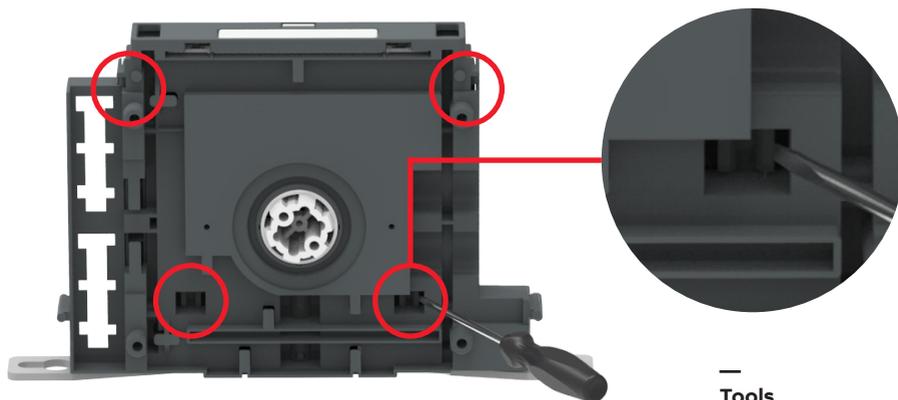


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Phase 2 – Disassembly of the position indicator

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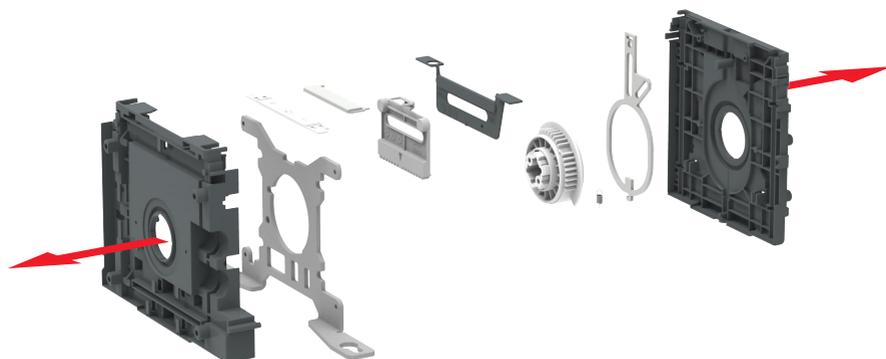


Tools

Flat screwdriver

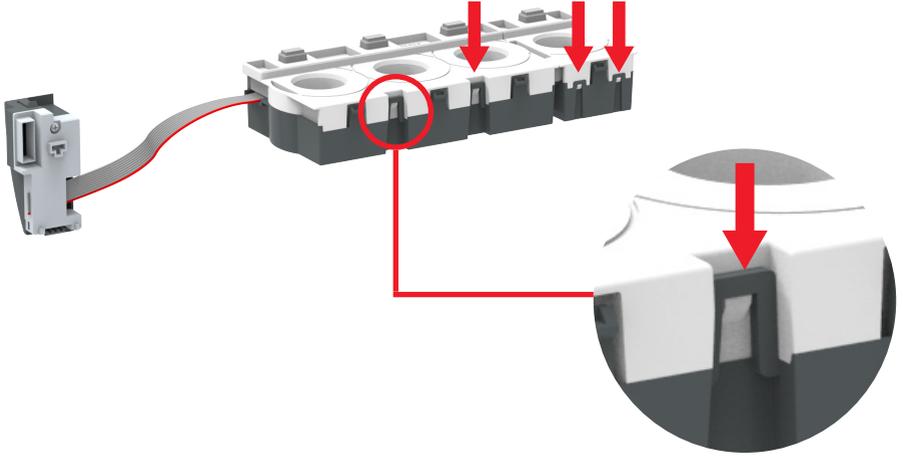


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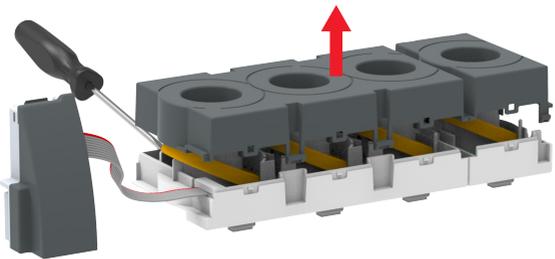
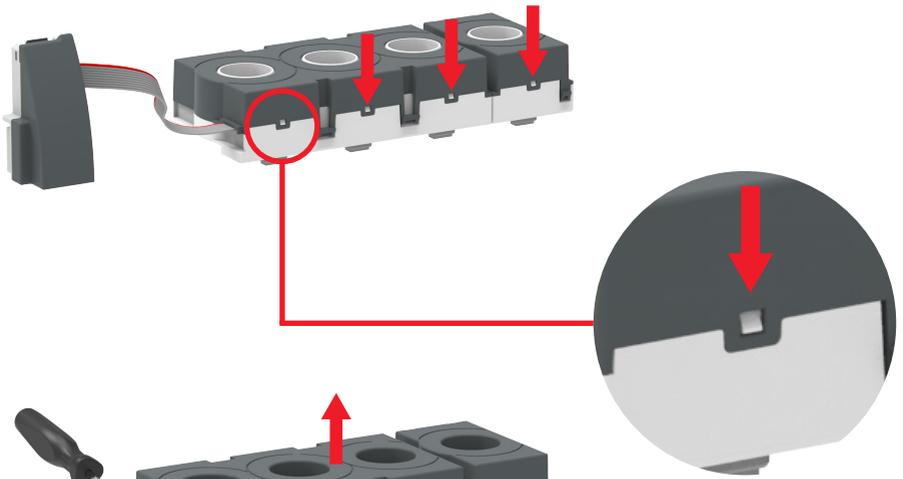


Phase 3 – Disassembly of the sensor module

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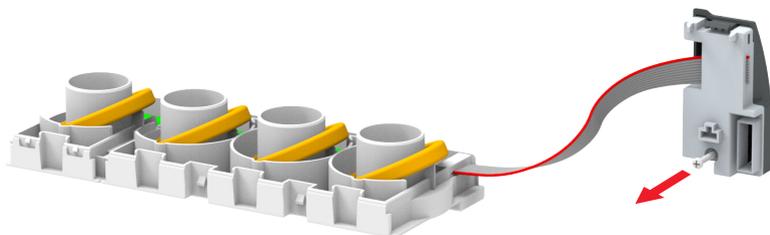


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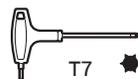
- **Tools**
Flat screwdriver
- 

3

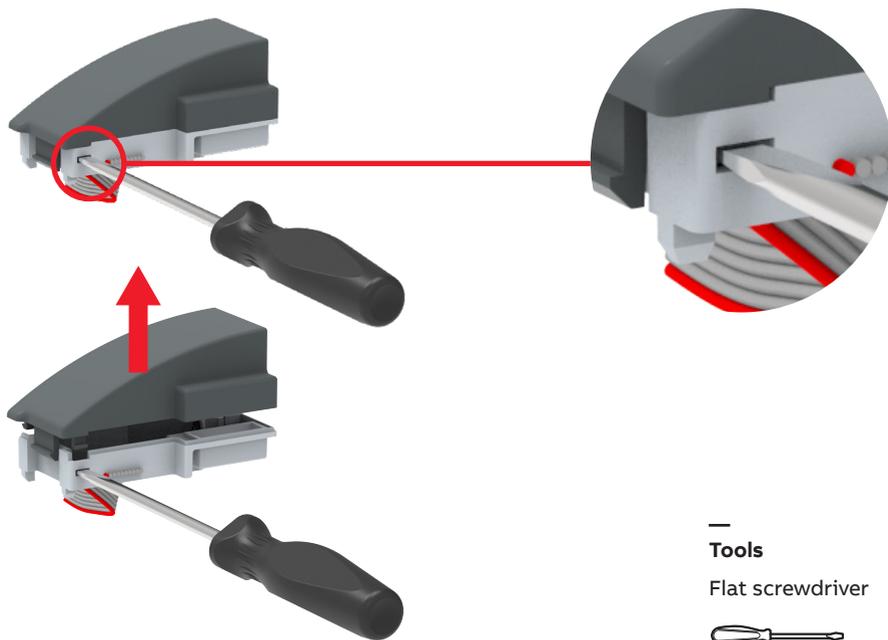


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Tools

Torx key (size 7)



4

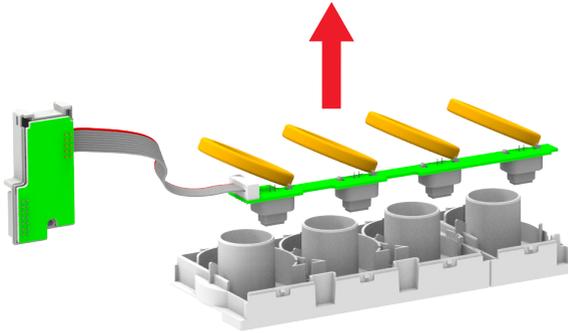


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Tools

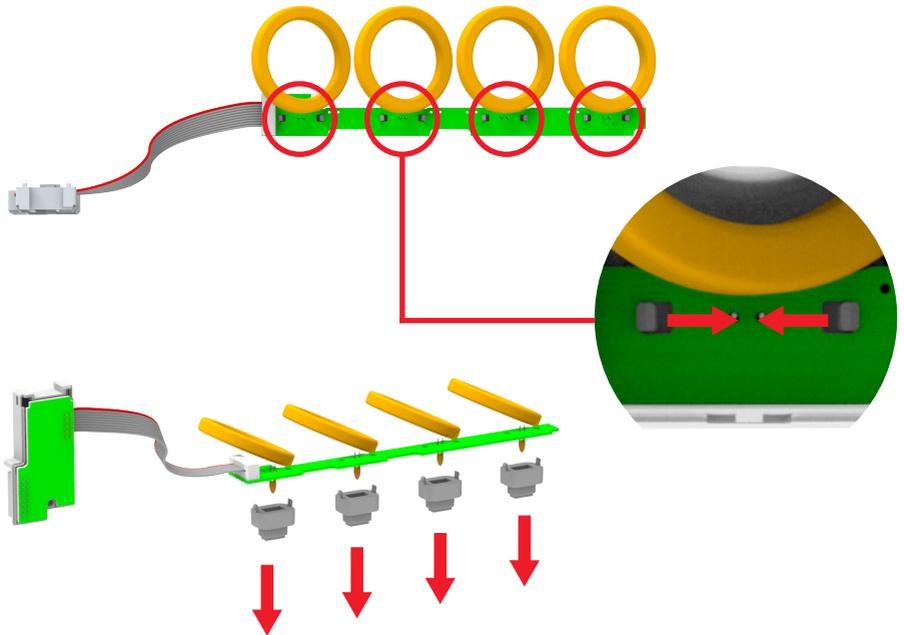
Flat screwdriver



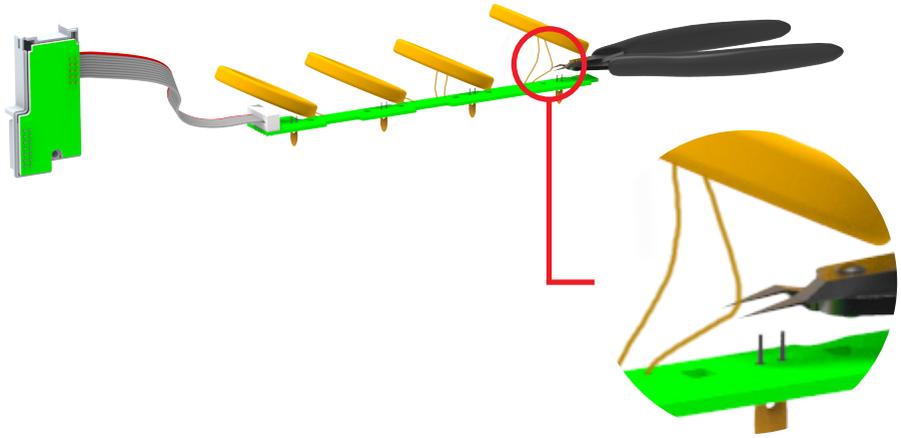
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6



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Tools

Pliers



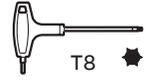
Part III – Disassembly of the HMI

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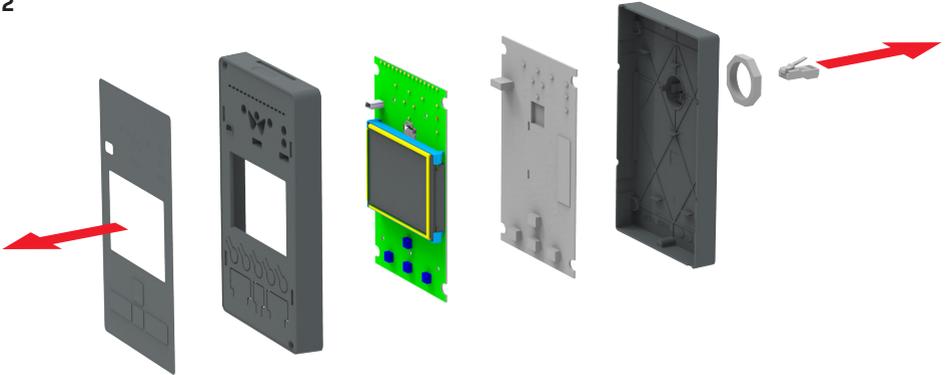


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Tools

Torx key (size 8)



2



Component list

Automatic transfer switch OX_30...400_

Component name	Quantity	Material(s)	Weight (g/pc)
Mounting plate	2	Steel	424
Support	1	Polycarbonate	50
End cover	1	Polycarbonate	111
Screw	4	Steel	2
Cover for poles	4	Polycarbonate	24-34
Indication Plate	1	Polycarbonate	3
Terminal Cover	1	Polycarbonate	38
Stud screw	2	Steel	20
Handle	1	Polycarbonate	45
Shroud	2	Polycarbonate	47
Screw	4	Steel	4
Screw	1	Steel	1
Patch cable	1		47
Wire harness	1		24-26
Wire harness	1		21-23
Stud screw	4	Steel	37-49

Power module

Component name	Quantity	Material(s)	Weight (g/pc)
Frame	1	Polycarbonate	150
Cover	1	Polycarbonate	136
Screw	5	Steel	1
Slide connector	1	Polycarbonate	22
Voltage connector	1	Polycarbonate	9
Printed circuit board	1		580

Controller module

Component name	Quantity	Material(s)	Weight (g/pc)
Printed circuit board	1		166
Cover	1	Polycarbonate	65
Printed circuit board	1		129
Cover	1	Polycarbonate	31
Controller frame with padlock	1		157
Module frame	1	Polycarbonate	130
Slider	1	Polycarbonate	2
Padlock rod	1	Polycarbonate	1
Spring	1	Steel	1
Padlock module assembly	1	Plastic, metal	22
Screw	1	Steel	1
Screw	2	Steel	1
Screw	3	Steel	1

Sensor module

Component name	Quantity	Material(s)	Weight (g/pc)
Frame A	1	Polyamide	53
Frame A	1	Polyamide	19
Frame B	1	Polyamide	45
Frame B	1	Polyamide	16
Sensor interface cover	1	Polycarbonate	6
Sensor interface cover	1	Polycarbonate	5
Screw	1	Steel	1
Thermally conductive gap filler	4		1
Coil	4	Copper	10
Printed circuit boards + flat cable	1		33

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Mechanism

Component name	Quantity	Material(s)	Weight (g/pc)
Mechanism without frames assembly	1		4860
Top frame	1	Polycarbonate	244
Bottom frame	1	Polycarbonate	165
Screw	4	Steel	3

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Pole

Component name	Quantity	Material(s)	Weight (g/pc)
Frame A	1	Glass fiber filled polyester	441
Frame B	1	Glass fiber filled polyester	480
Arc Plate	10	Steel	12
Fixed contact	2	Copper	84
Roll assembly	1		321
Moving contact assembly	1		204
Connection bar	1	Copper	69
Copper braid	2/4	Copper	39
Contact knife	2/4	Copper	48
Contact iron	2/4	Steel	15
Contact spring	2/4	Steel	2
Spring guide	1/2	Steel	1
Roll	1	Polyamide	70
Locking piece	1	Polyamide	12

Position indicator

Component name	Quantity	Material(s)	Weight (g/pc)
Frame A	1	Polycarbonate	193
Frame B	1	Polycarbonate	119
Window	1	Polycarbonate	3
Slider	1	Polyamide	16
Cover	1	Polycarbonate	9
Roll	1	Polyamide	65
Spring	1	Steel	0,4
Lock Plate	1	Steel	53

HMI

Component name	Quantity	Material(s)	Weight (g/pc)
Interface label	1	Protek polyester foil	5
Cover	1	Polycarbonate	49
Printed circuit board	1		79
Cover	1	Polycarbonate	50
Screw	4	Steel	1
Plastic Nut	1		2
Plug adapter	1		3

Recycling information in accordance with the WEEE

The product is marked with the wheelie bin symbol. It indicates that at the end of life the product should enter the recycling system.

You should dispose of it separately at an appropriate collection point and not place it in the normal waste stream.

The figure below shows the wheelie bin symbol indicating separate collection for electrical and electronic equipment (EEE).



The horizontal bar underneath the crossed-out wheelie bin indicates that the equipment has been manufactured after the Directive came into force in 2005.

The wheelie bin symbol is added to the type designation label of the product since 2017.



Contact us

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