

DISASSEMBLY INSTRUCTIONS

Switch Disconnectors

OT2000-2500



003

Table of contents

003	important information
004 -005	Disassembly of the switch-disconnector
006 -008	Disassembly of the pole
009	Disassembly of the mechanism
010 -011	Component list
012	Recycling information in accordance with the WEEE

Important information

Important information

This document shows the disassembly process of OT2000–2500 switch-disconnectors. Accessories, such as shafts, clamps, shrouds, neutral links and auxiliary contacts are not included in this document.

Safety Notes

Before starting the disassembly process it is mandatory to put the switch-disconnector in open position.

Disassembly of switch-disconnectors 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 switch-disconnectors.

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 switch-disconnectors 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









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:

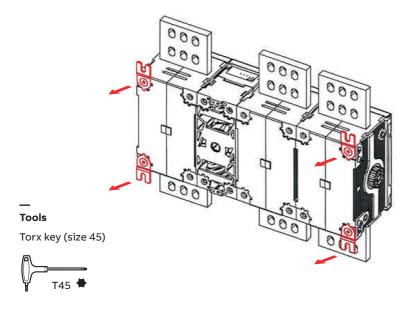
- Part/parts to be disassembled (title of the phase)
- · Tools to be used
- · Description of actions to be performed
- Pictures showing actions to be performed
- List, quantity and picture of disassembled parts with an indication about separate treatment (when applicable)
- In case of potential hazards signal below is reported:

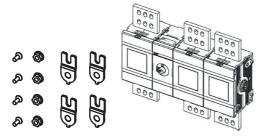


Disassembly of the switchdisconnector

Phase 1 - The mounting plates

Use a torx key to unscrew the 4 screws fixing the mounting plates to the switch-disconnector.

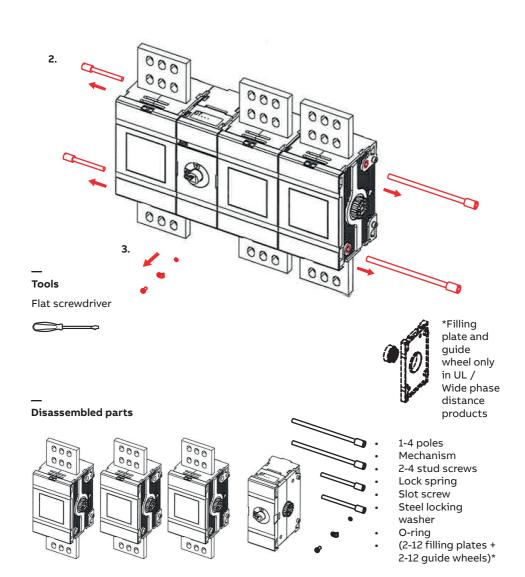




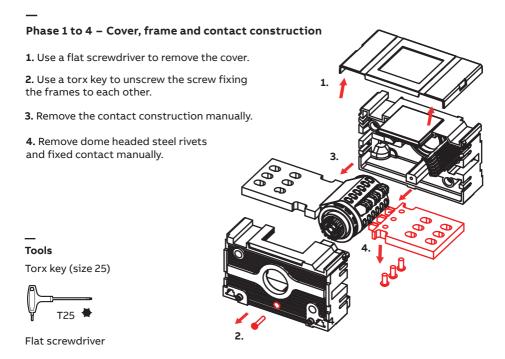
- 4 screws
- 4 hex nuts
- 4 mounting plates
- Mechanism with 1-4 poles

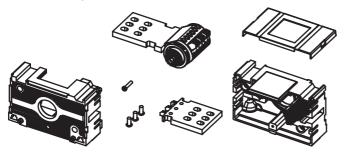
Phase 2 & 3 - Stud screws and shaft locking

- **2.** Use a flat screwdriver to unscrew the stud screws fixing the poles to the mechanism.
- **3.** Use a flat screwdriver to remove shaft locking.



Disassembly of the pole

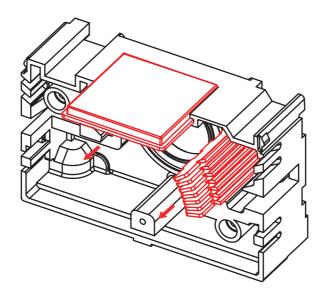


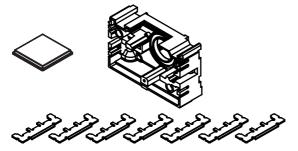


- Frame A + window and arc plates
- Frame B
- 1 contact construction
- 1 fixed contact
- 1 screw
- 1 cover
- 3 dome headed steel rivets

Phase 5 - Arc plates and window

Remove arc plates and window from frame A manually.



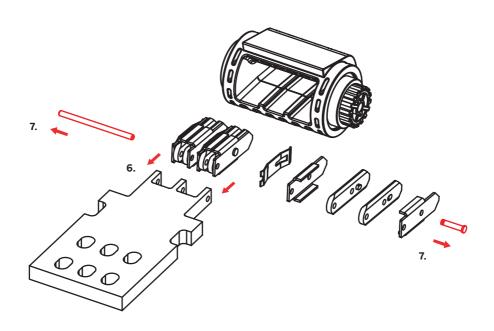


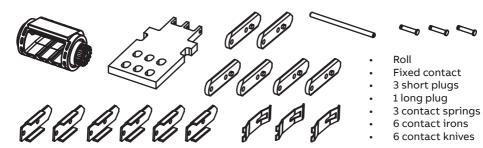
- Frame A
- Window
- 7 arc plates

Phase 6 & 7 - The contact construction

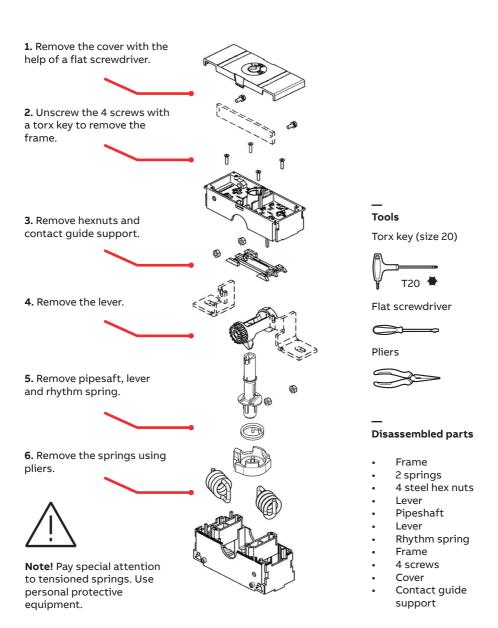
6. Remove the second fixed contact and knife structures from the roll manually.

7. Separate contact knives, contact springs and contact irons from each other by removing plugs.





Disassembly of the mechanism



Component list

Switch-disconnector

Quantity	Material(s)	Weight (g/pc)
1	See component list below	2110,7
1-4	See component list below	36769,1
1	Steel	0,2
1	Chromium steel	2,0
1	Steel	0,4
1	Rubber	0,0
4	Steel	28,2
4	Steel	9,9
4	Steel	6,4
2-4	Steel	37,0-110,0
1	Polyest-resin	0,2
1	Polyest-resin	0,3
1	Polyest-resin	0,0
2-12	Zinc alloy	150,0
2-12	Polycarbonate	127,0
	1 1-4 1 1 1 1 4 4 4 2-4 1 1 1 2-12	1 See component list below 1-4 See component list below 1 Steel 1 Chromium steel 1 Steel 1 Rubber 4 Steel 4 Steel 4 Steel 2-4 Steel 1 Polyest-resin 1 Polyest-resin 2-12 Zinc alloy

^{*}Filling plate and guide wheel only in UL / wide phase distance products

Pole

Component name	Quantity/pole	Material(s)	Weight (g/pc)
Frame A	1	Polyest-resin	894,8
Frame B	1	Polyest-resin	990,8
Fixed contact	1	Copper	1404,3
Cover	1	Polycarbonate	65,5
Window	1	Polycarbonate	26,3
Arc plate	7	Steel	42,6
Dome headed steel rivet	3	Steel	9,0
Screw	1	Steel	9,2
Roll	1	Polyarylamide	347,9
Long plug	1	Chromium steel	12,2
Short plug	3	Chromium steel	3,9

Component name	Quantity/pole	Material(s)	Weight (g/pc)
Contact knife	6	Copper	53,8
Contact iron	6	Steel	26,4
Contact spring	3	Chromium steel	6,2
Fixed contact	1	Copper	1975,3

Mechanism

Component name	Quantity	Material(s)	Weight (g/pc)
Frame	1	Polyamide	487,0
Frame	1	Polyamide	226,2
Contact guide support	1	Polyamide	14,9
Cover	1	Polycarbonate	60,6
Pipesaft	1	Zinc alloy	268,9
Lever	1	Zinc alloy	282,3
Lever	1	Zinc alloy	365,3
Spring	2	Steel	169,1
Rhythm spring	1	Steel	39,0
Steel hex nut	4	Steel	5,4
Screw	4	Chromium steel	1,7

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.



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