INSTRUCTION HANDBOOK

OTDC S1.0-Series 100...250A
Disassembling instructions

1. SCOPE

Scope of this document is to illustrate the basic structure and disassembly of OTDC S1.0-Series 100...250A switch-disconnectors.

This document uses OTDC200E11 2p version as a reference product, and it covers other versions of OTDC S1.0-Series 100...250A switch-disconnectors with few differences to be taken into account. These differences include number of poles, pole configuration, side or front operation. Other differences between switch-disconnectors may result from accessories, including shafts, handles, phase barriers, shrouds, connection bars, auxiliary contacts, mechanical lugs and interlocks.

2. SAFETY NOTES

Before proceeding with any disassembling operation, it's mandatory to put the switch in open position.

Disassembling operations of 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 switch-disconnectors.

Disassembling activities must be performed in an ergonomic workspace able to ensure protection of persons demanded to perform disassembling activities.

Applicable national legislation and international standards in force at the time of disassembling of switch-disconnectors must be taken into account in addition to 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.

3. PERSONAL PROTECTIVE EQUIMENT (PPE)

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

Gloves

Glasses

Safety shoes

Protective clothes

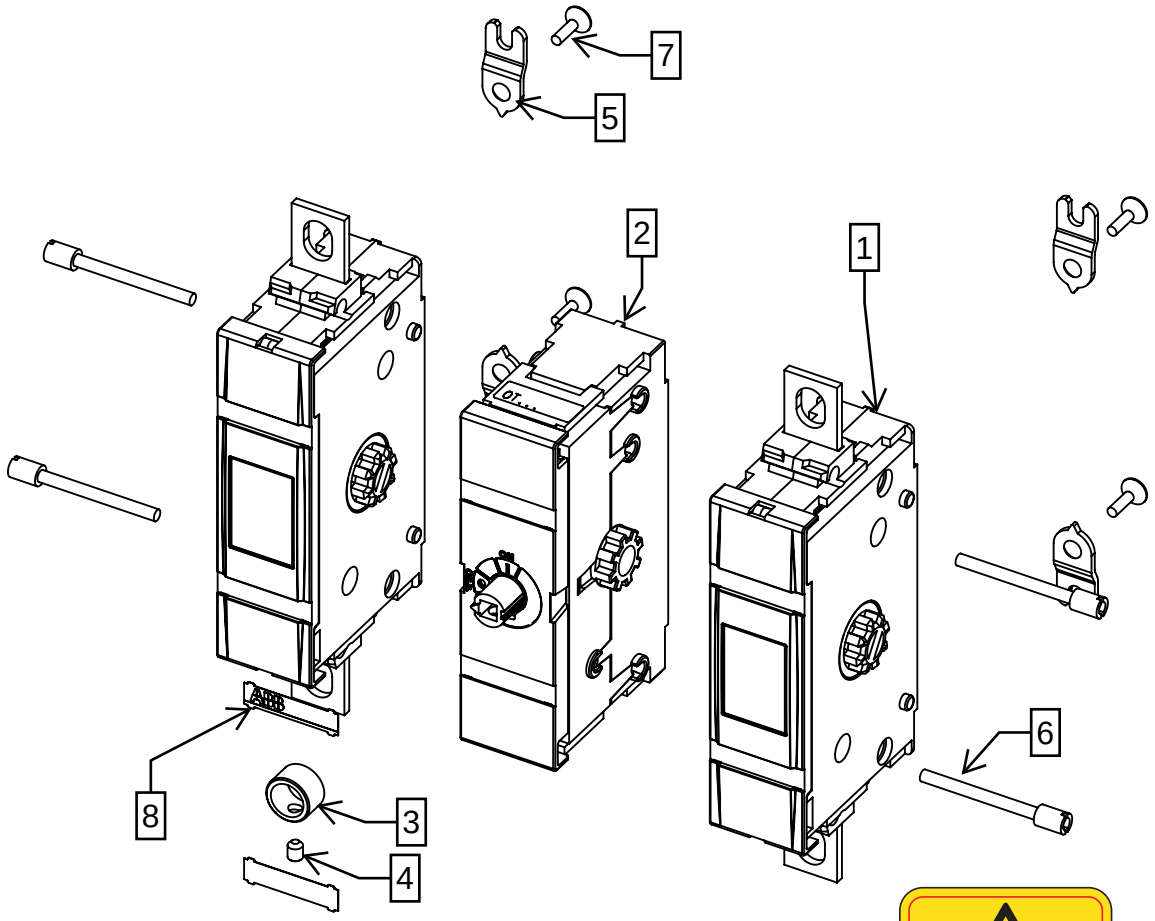
4. TOOLS

Disassembling operations require the use of tools (e.g. screwdriver, torx key, pliers, ...)
tools to be used are specified inside each phase of the disassembling process.

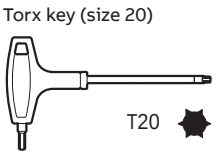
5. DISASSEMBLING PROCESS

Disassembly process is to be performed following the structure shown in drawings in this chapter. Each drawing shows the components, their weight, material and quantity.

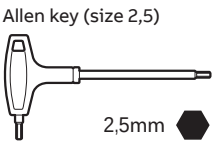
5.1 Phase 1, Switch



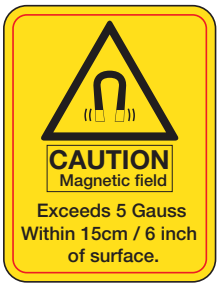
Tools:



For parts: 7

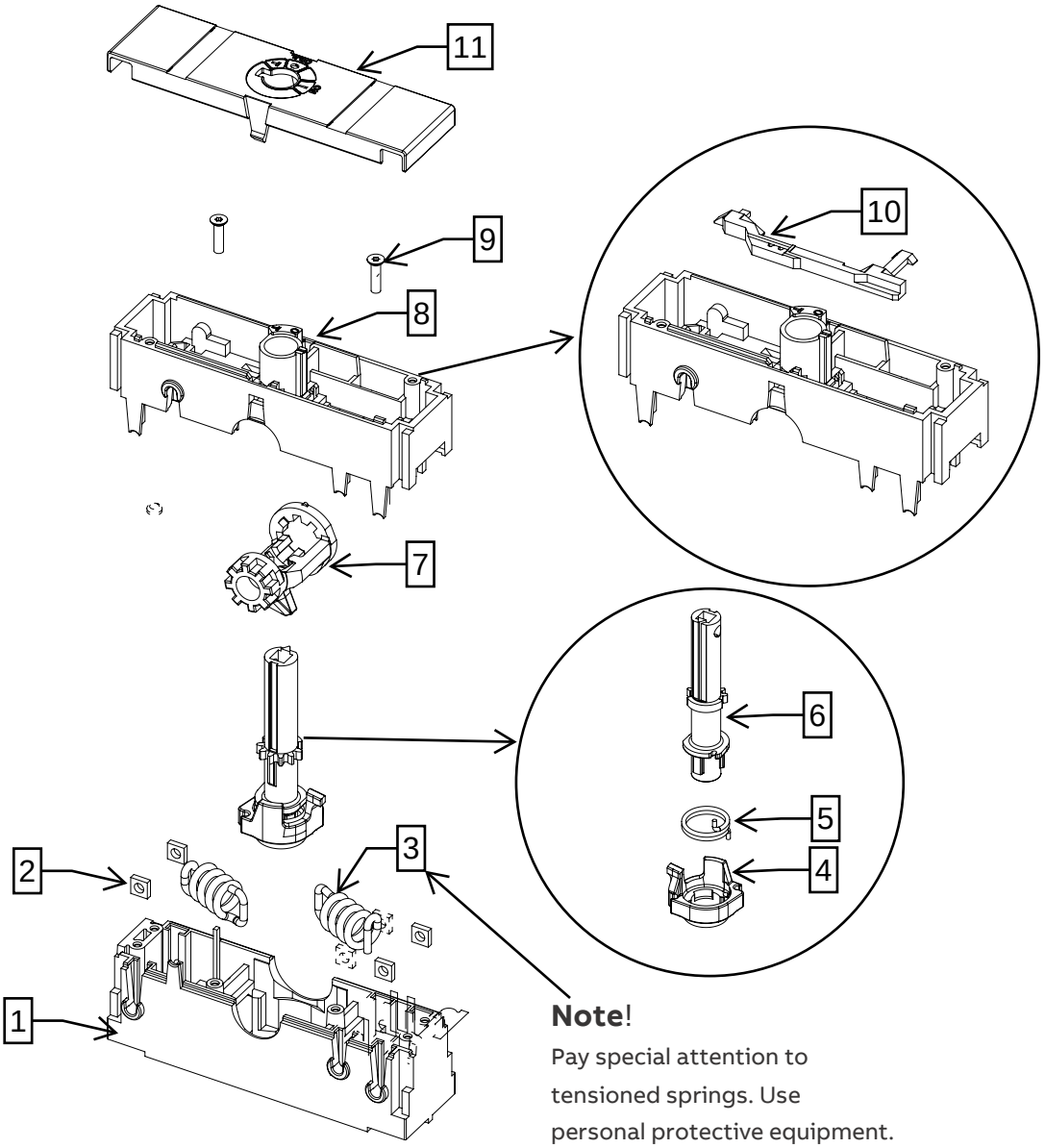


For parts: 4



Part no.	Name	Qty	Materials	Weight (g/pc)
1	Pole	2-6	(Assembly)	373,6
2	Mechanism	1	(Assembly)	264,1
3	Locking Ring	1	Steel	5
4	Hexag. Socket Head Screw	1	Chromium Steel	0,5
5	Mounting Plate	4	Steel	5,1
6	Stud Screw	4	Steel	9,4-10,8
7	Screw	4	Steel	1,6
8	Label Set	2	Polyester	0,1

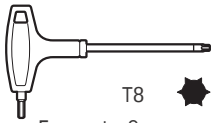
5.2 Phase 2, Mechanism



Note!
Pay special attention to tensioned springs. Use personal protective equipment.

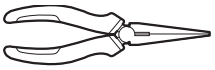
Tools:

Torx key (size 8)



For parts: 9

Pliers



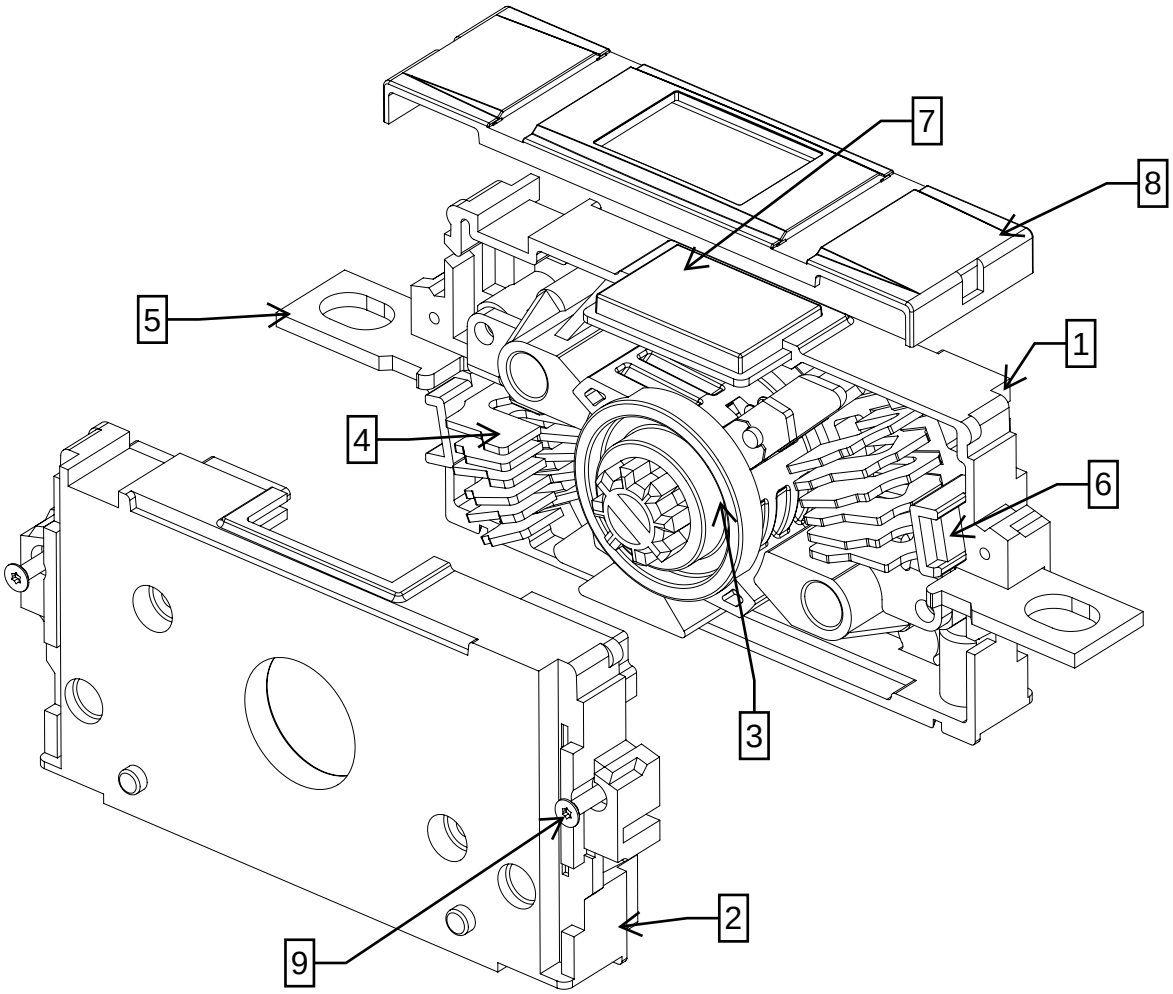
For parts: 3, 5

Flat screwdriver

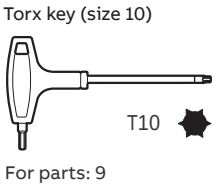
For parts: 11

Part no.	Name	Qty	Materials	Weight (g/pc)
1	Frame	1	Polyamide	77,57
2	Steel Nut	8	Steel	0,59
3	Spring	2	Steel	9,68
4	Lever	1	Zincalloy	21,71
5	Rhythm Spring	1	Steel	2,61
6	Pipeshaft	1	Zincalloy	36,90
7	Lever	1	Zincalloy	38,60
8	Frame	1	Polyamide	47,42
9	Screw	2	Steel	0,76
10	Contact Guide Support	1	Polyamide	2,61
11	Cover	1	Polycarbonate	10,94

5.3 Phase 3, Pole

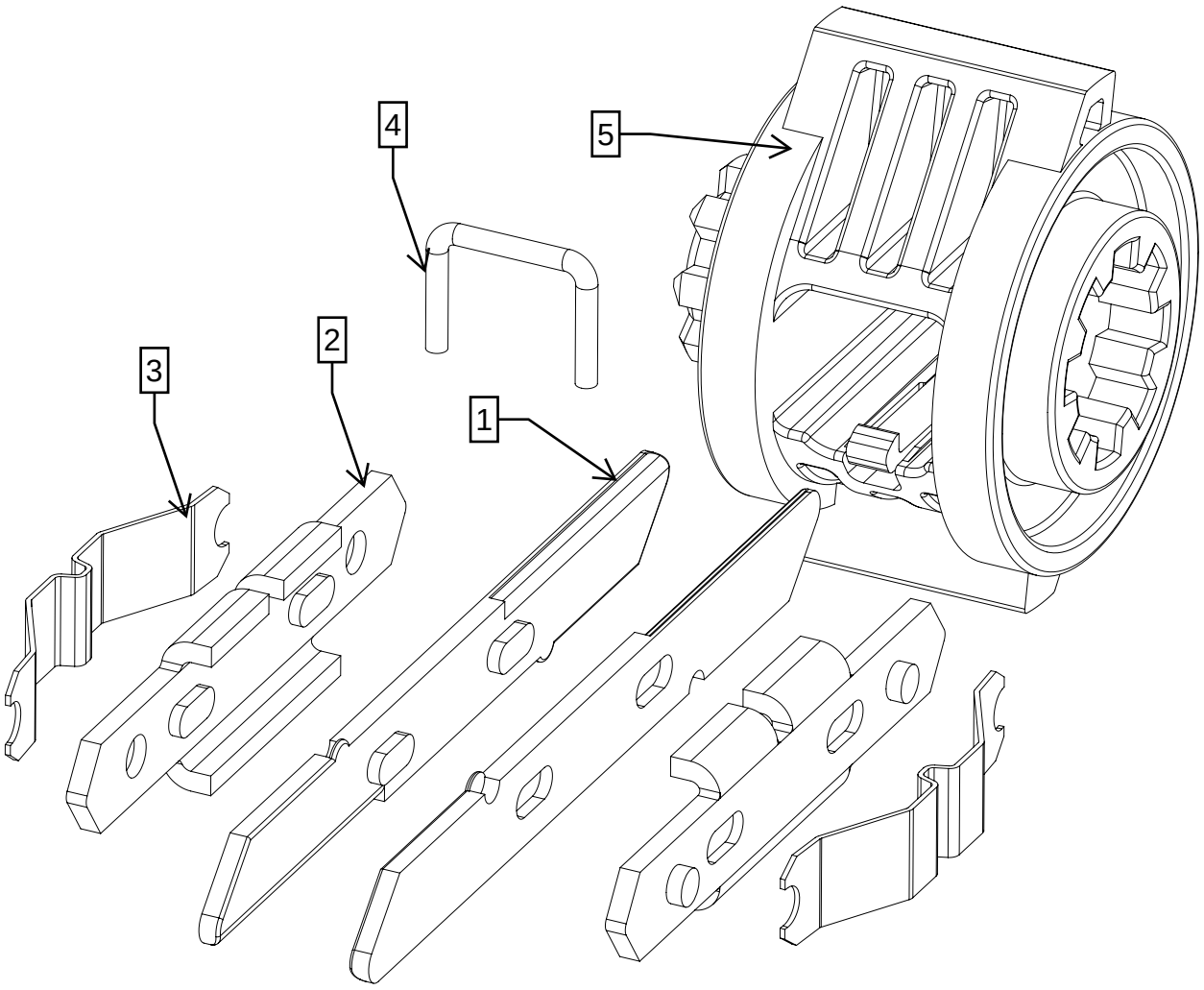


Tools:

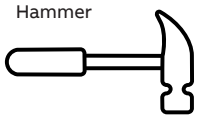


Part no.	Name	Qty	Materials	Weight (g/pc)
1	Frame A	1	Polyester	98,0
2	Frame B	1	Polyester	80,3
3	Contact Construction	1	(Assembly)	85,7
4	Arc Plate	12	Steel	4,2
5	Fixed Contact	2	Copper	23,0
6	Magnet	2	Neodym Iron Boron	1,8
7	Window	1	Polycarbonate	2,5
8	Cover	1	Polycarbonate	3,0
9	Screw	2	Chromium Steel	2,0

5.4 Phase 4, contact construction



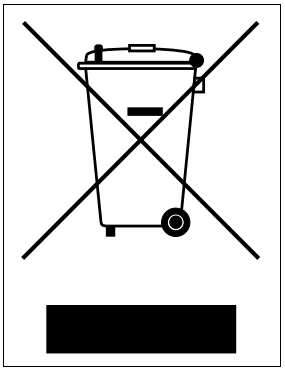
Tools:



Part no.	Name	Qty	Materials	Weight (g/pc)
1	Contact Knife	2	Copper	13,0
2	Contact Iron	2	Steel	12,2
3	Contact Spring	2	Chromium Steel	1,6
4	Spring Guide	1	Chromium Steel	0,7
5	Roll	1	Polyamide	31,4

6. 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.
The figure below shows an example.

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