

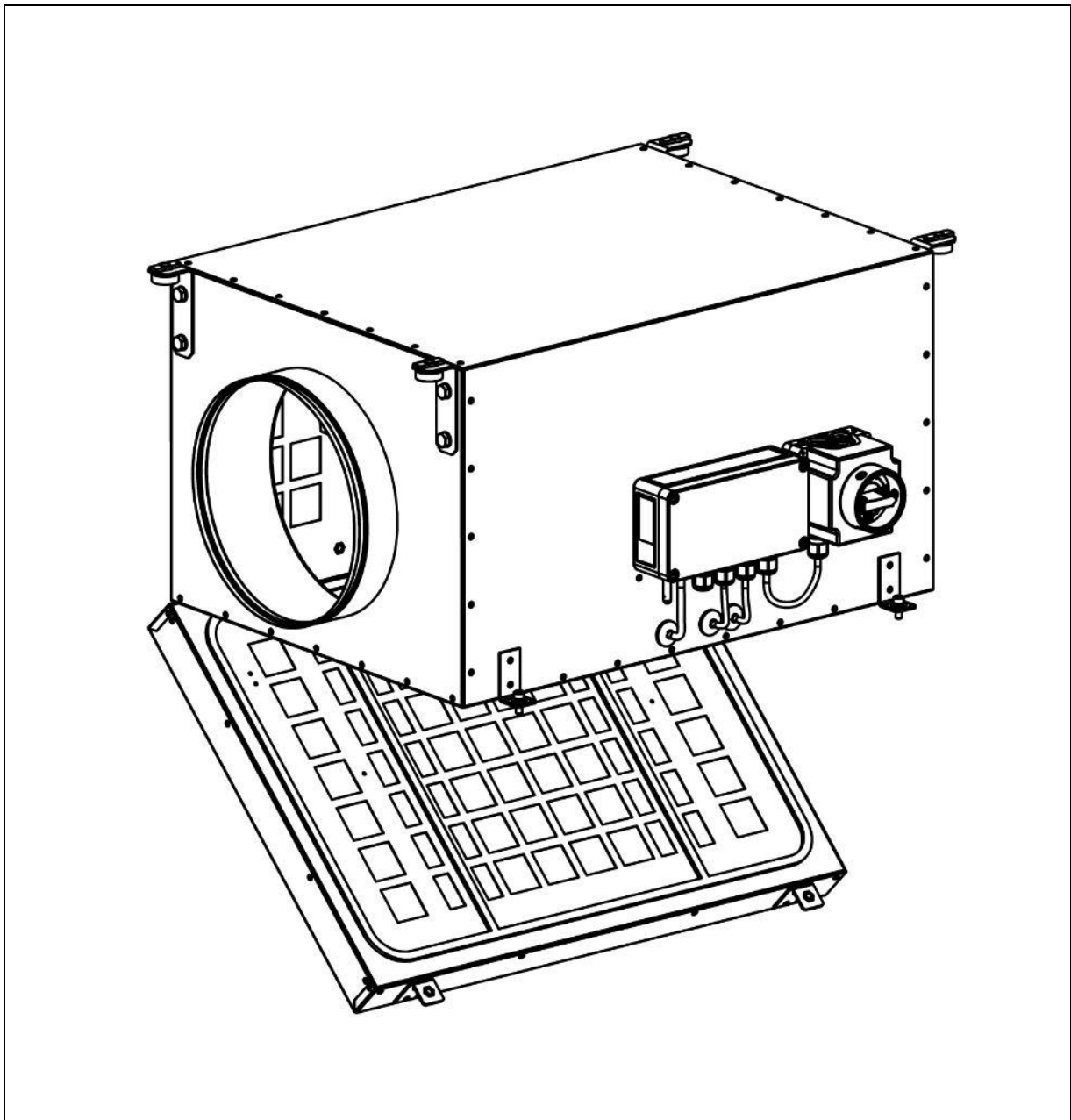
**Disassembly Instructions**

**ENGLISH**

**VCZ**



**Identification of plastic parts and electronics parts**



TF6594\_A

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## 1.

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2.

### 3. INTRODUCTION

#### 3.1. Information

ZLT GmbH Company ensures the total manufacture of VCZ fans. All the VCZ fans are then sold through Aereco Group.

#### 3.2. Warnings



**BEFORE DISASSEMBLING THE APPLIANCE, PLEASE READ THESE INSTRUCTIONS CAREFULLY.**

- The manufacturer cannot be held liable for irreversible damage caused by disassembling the product in the aim at recycling the product.
- This manual describes the required tools for the manual disassembly of electronics parts (printed wiring boards/ printed circuit boards and displays > 10 g or > 10 cm<sup>2</sup>), batteries and larger plastic parts (> 100 g) for the purpose of efficient materials recycling.
- Wearing suitable gloves while handling the product is strongly recommended (some of the metal parts may have sharp edges).



**Reminders of elementary safety rules:**

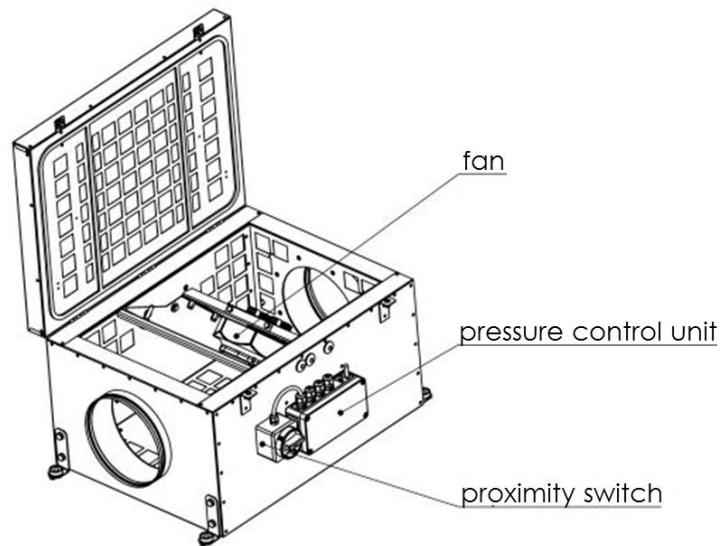
The disassembling of an electrical appliance requires observance of the following elementary rules:

- Do not touch the appliance, even if it is earthed, if your body is moist or wet (hands, feet, etc.);
- This system is not designed to be disassembled by persons whose intellectual and/or mental faculties are impaired, or who lack experience and knowledge (including children), unless they have been trained and are supervised by a person responsible for their safety during disassembling. To eliminate any risk of an accident, keep them away from the appliance;
- The electrical disassemble must be done by a qualified technician, in accordance with the manufacturer's recommendations and in a manner consistent with the characteristics of the product;
- Before doing any work on the appliance, unplug it or otherwise disconnect it from its power supply and make sure that the power cannot be restored accidentally while the work is being done;
- Young children must be kept far away from the appliance in order to ensure that they do not play with it.



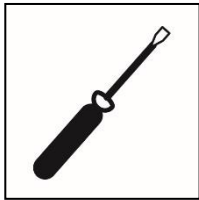
**Before starting the disassembling procedure, ensure that the appliance is disconnected from the electric circuit and volt-free. Secure against unintentional restart. Do not open the housing before the complete stop of the fan impeller.**

## 2. OVERVIEW



## 5. REQUIRED TOOLS

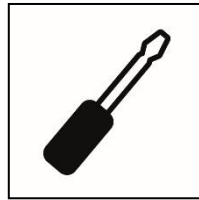
The following tools are required to disassemble the fan:



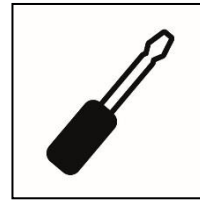
Screwdriver  
3.5 mm



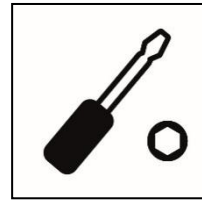
Screwdriver  
5.5 mm



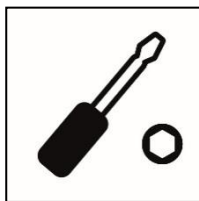
Screwdriver PZ2



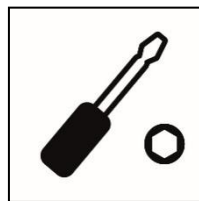
Screwdriver PH0



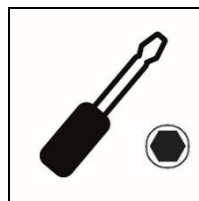
Wrench AF13



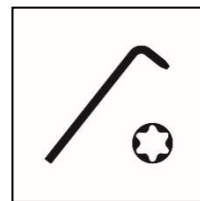
Wrench AF22



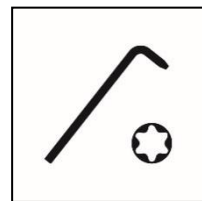
Wrench AF27



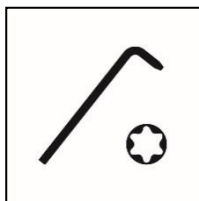
Allen Key AF5



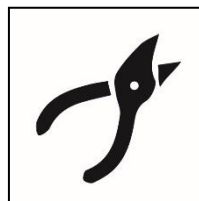
Torx T10



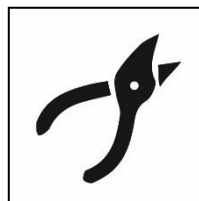
Torx T20



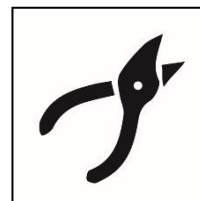
Combination  
pliers



Needle nose  
pliers



Side cutting pliers



Wire cutter

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## 6. DISSASSEMBLY MANIPULATIONS

In the aim at recycling the product, the disassembling of the different plastic parts and electronic parts has to be done in accordance with the following steps:

### 6.1. Preparations

**First of all, disconnect the fan power supply.**

#### 6.1.1. Loosen the screw connection of the cover

 Allen Key AF 5

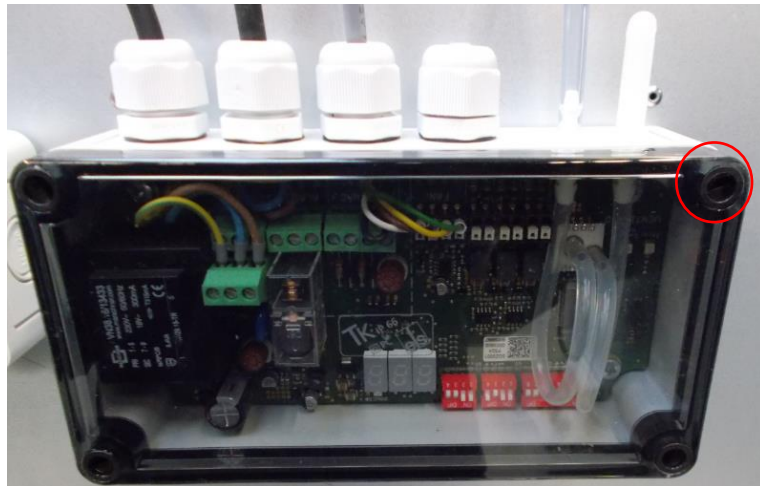
- 
- Unscrew the hexagon socket head cap screws M6 x 16 (depending on model) using an Allen key AF 5.



## 6.2. Disassembly of the Pressure Control Unit

### 6.2.1. Removing the Cover




⊖ Screwdriver      1.0 x 5.5

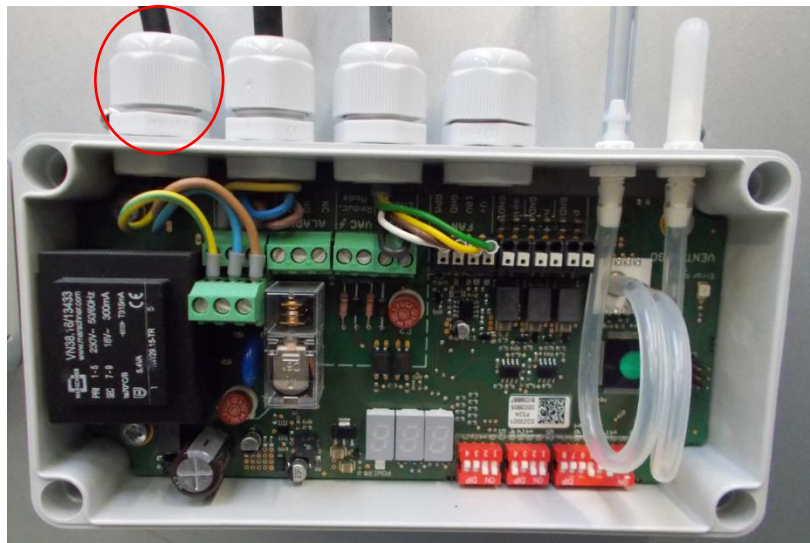


- Unscrew the cover screw connections (4x) using a screwdriver 1.0 x 5.5.
- Remove the cover from the casing.



### 6.2.2. Removing the electrical wiring

-  Screwdriver                      0.6 x 3.5
-  Wrench                                      AF 27
-  Needle nose pliers                      Universal

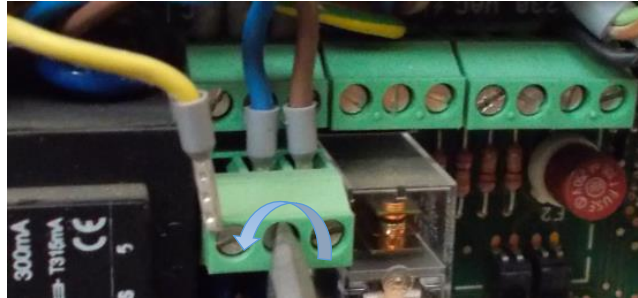


- Loosen the head of the cable gland (3x) using a wrench AF 27.

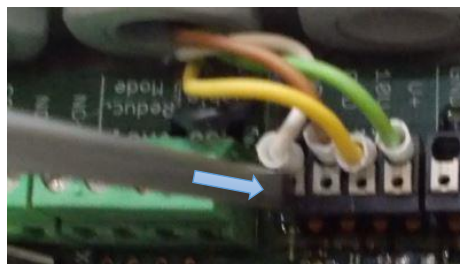




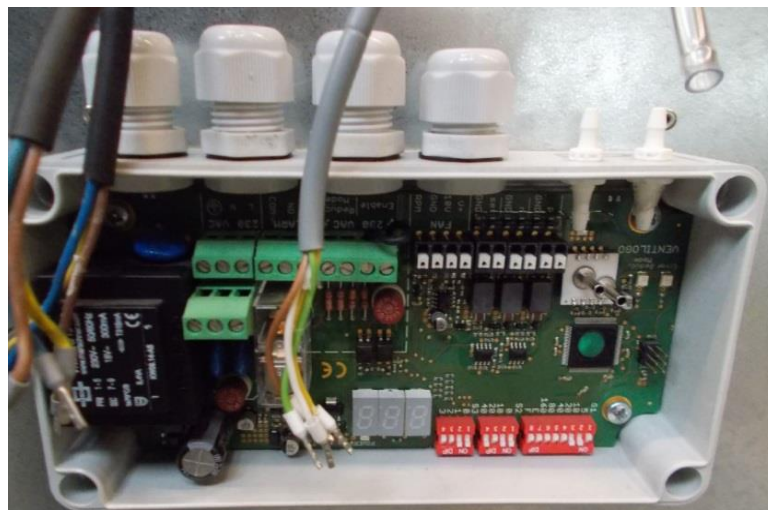
- Loosen the screw connection (6x) of the screw terminals (green) using a screwdriver 0.6 x 3.5.
- Pull the wires out of the socket using needle nose pliers until all wires are loose.



- The remaining cables can be declamped using a screwdriver 0.6 x 3.5 pressing down the spring connector while simultaneously pulling on the cable using needle nose pliers.

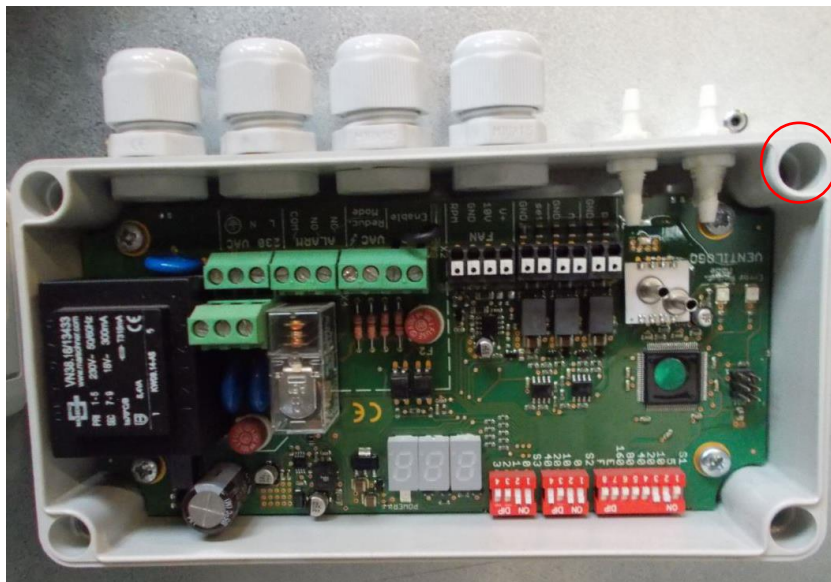


- Remove all cables by pulling them through the cable glands.
- Pull off all pneumatic hoses from the hose nipples.



6.2.3. Removing the pressure control unit from the fan casing

- ☛ Screwdriver TX 20



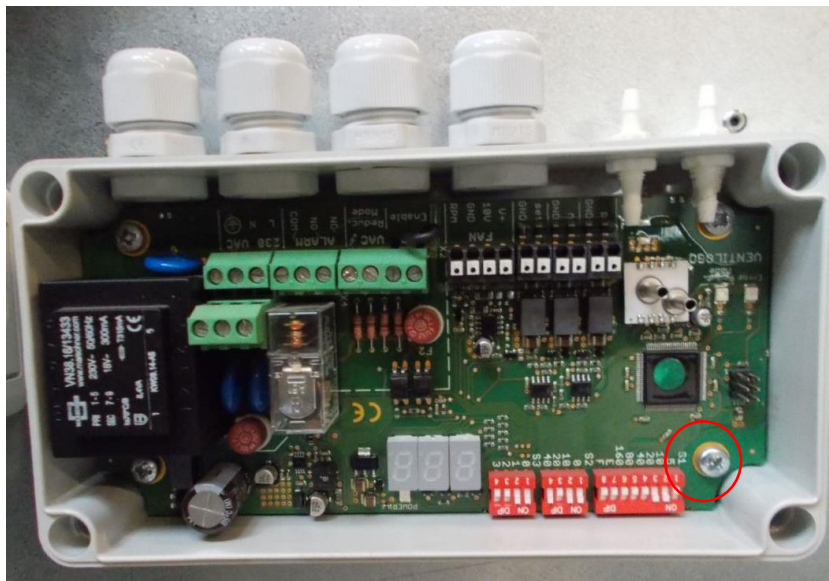
- Remove the self-tapping screws ST 4.2 x 13 (4x) using a screwdriver TX 20.



#### 6.2.4. Removing the circuit board from the control unit

 Screwdriver

PZ 2

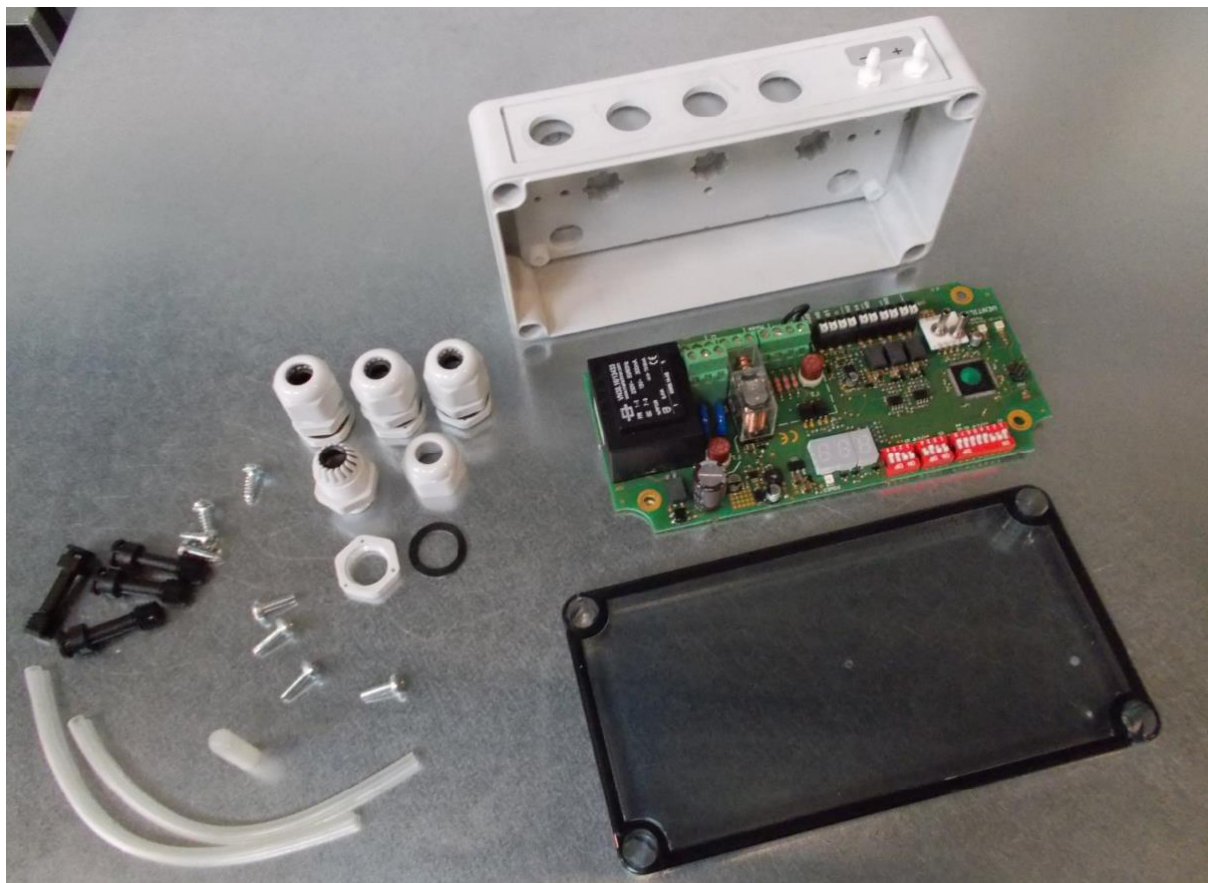


- Remove the fixing screws M6 x 10 (4x) of the circuit board using a screwdriver PZ 2.





### 6.3. Component Parts: Pressure Control Unit



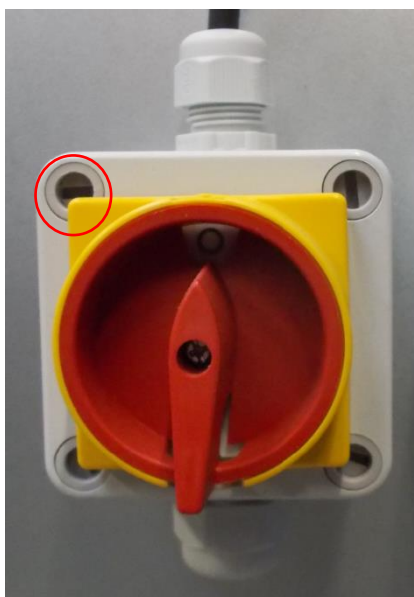
Component part	Quantity	Material	Weight [g]
<b>Housing</b>			
Box	1	ABS	187
Cover	1	Polycarbonate	94
>Cover-screws	4	PA6 – GF25	7
Circuit board	1	Electronics assembly	300
<b>Accessories</b>			
Cable glands	4	Polyamide	25

>Seal	4	Neoprene	7
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## 6.4. Disassembling the Proximity Switch

### 6.4.1. Removing the case cover including the switch





⊖ Screwdriver                      0.6 x 3.5

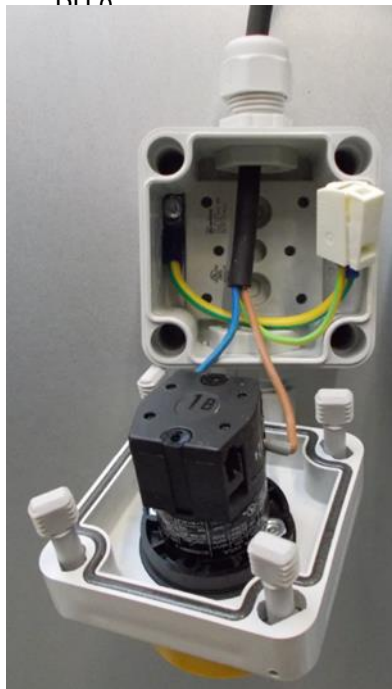


- Remove the case cover by turning the cover screws (4x) alternately using a screwdriver 0.6 x 3.5.



#### 6.4.2. Removing the electrical wiring

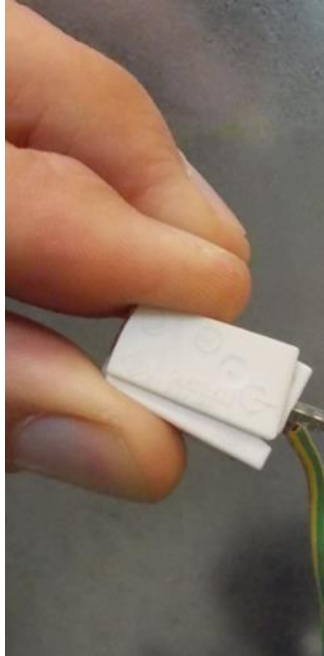
-  Screwdriver TX10
-  Screwdriver
-  Wrench
-  Needle nose pliers



- Loosen the head of the cable gland using a wrench AF 22.

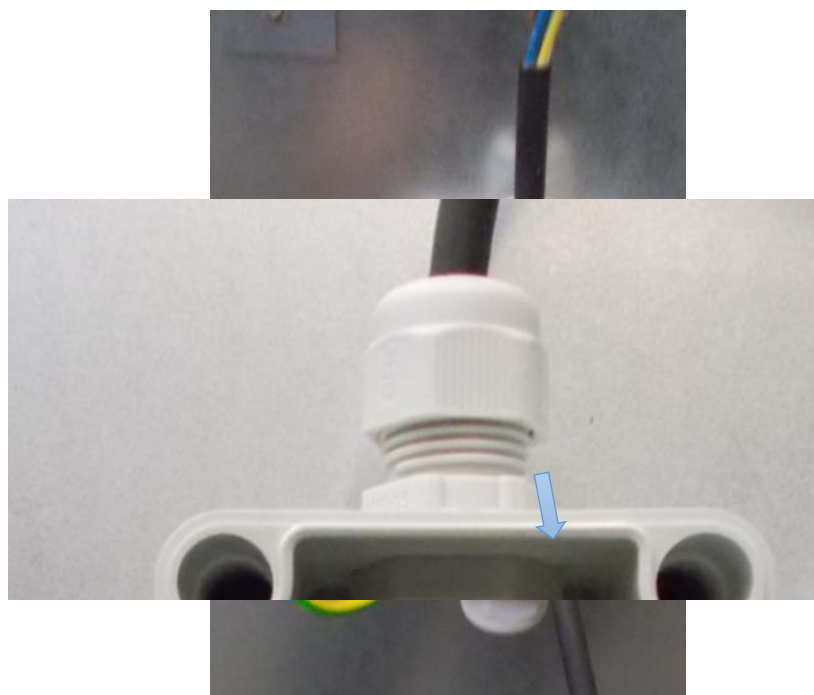


- Press the cable clamp clamp. At the same time, needle nose pliers.

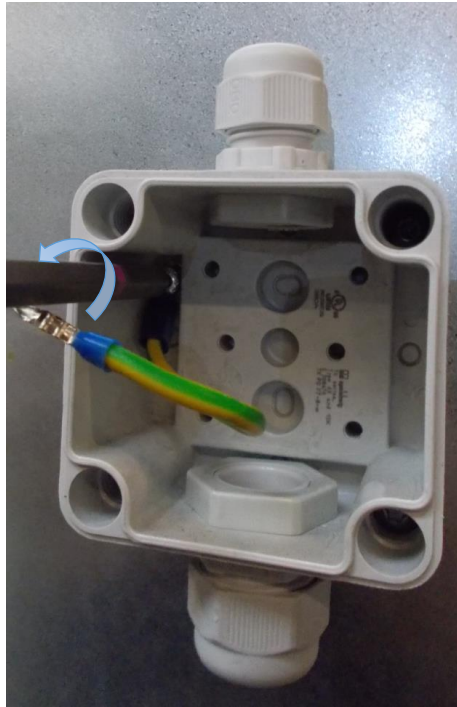


firmly together to loose the pull out the two wires using

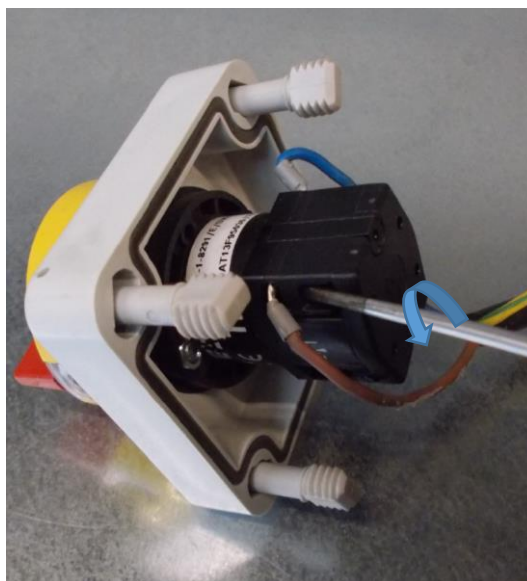
- Pull the wiring harness through the cable gland and out of the housing.



- Remove the self-tapping screw ST 3.1 x 14 using a screwdriver TX 10. Now remove the cable including the lock washer.



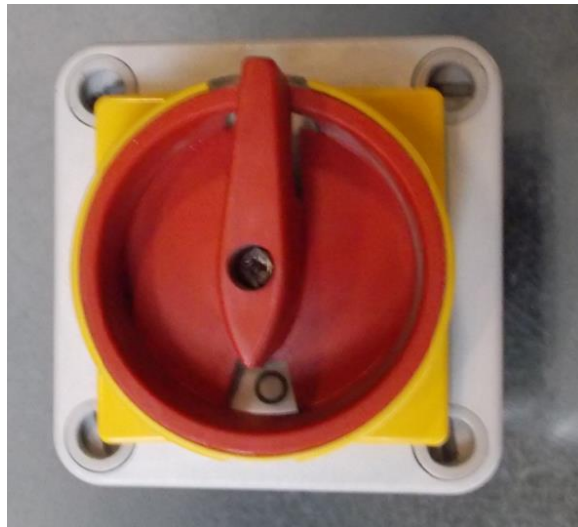
- Loosen the screws of the cable clamps (2x) of the cam switch using a screwdriver PH 0.
- Pull out the cables.



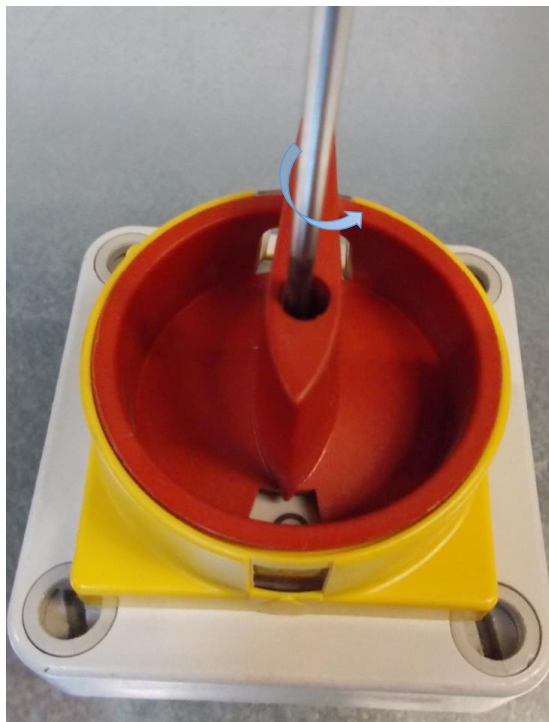


### 6.4.3. Disassembly of the case cover including the cam switch

- ⊕ Screwdriver PH 0; PZ 2
- ⊖ Screwdriver 0.6 x 3.5



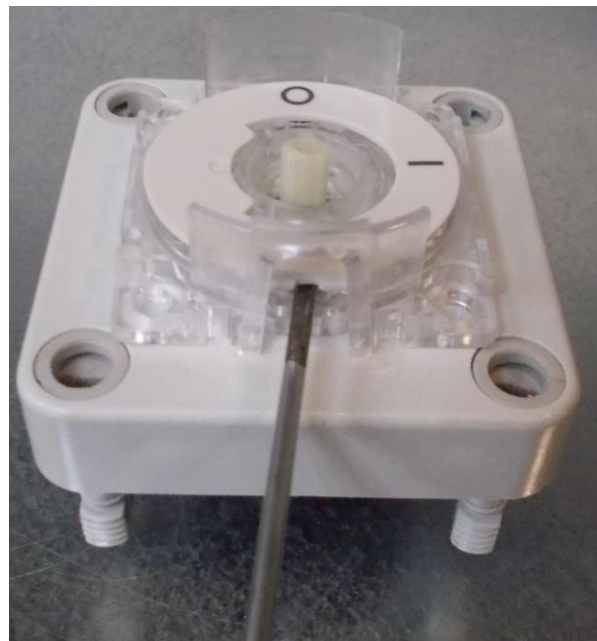
- Remove the fixing screw M3 x 15 of the rotary handle using a screwdriver PH 0.
- Pull off the handle.



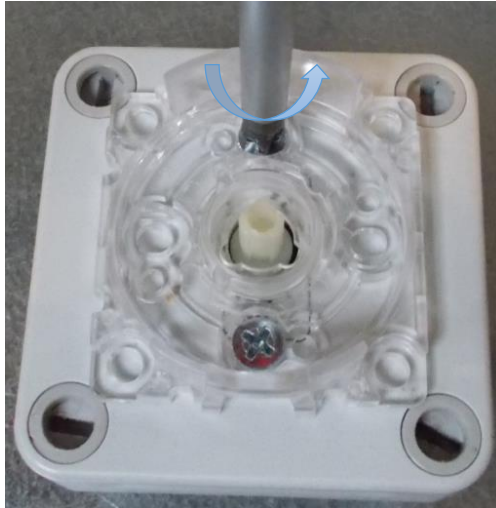
- The locking rim (yellow) is now loose. Pull off the locking rim from the case cover.



- To remove the display, lever it out of its anchoring using a screwdriver 0.6 x 3.5.



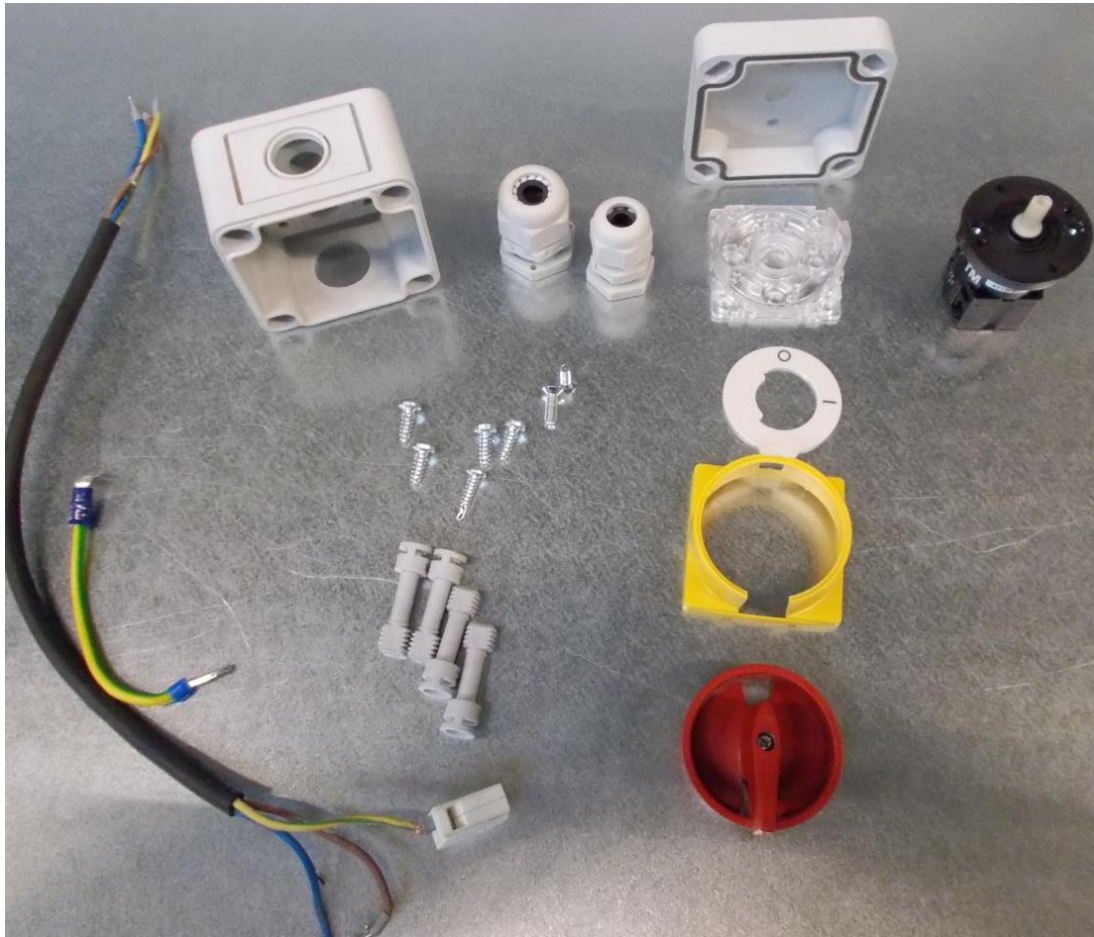
- Remove the fixing screw (2x) of the socket (clear) using a screwdriver PZ 2.



- Now the cam switch and the case cover including its screws lie free.



## 6.5. Component Parts: Proximity Switch



Component Parts	Quantity	Material	Weight [g]
<b>Housing</b>			
Box	1	Polycarbonate	58
Case cover	1	Polycarbonate	28
>Cover screws	4	Polyamide 6	7
Cam switch	1	Metal / Polyamide	29
>Socket (clear)	1	Acryl	4
>Display (white)	1	Polyamide	>1



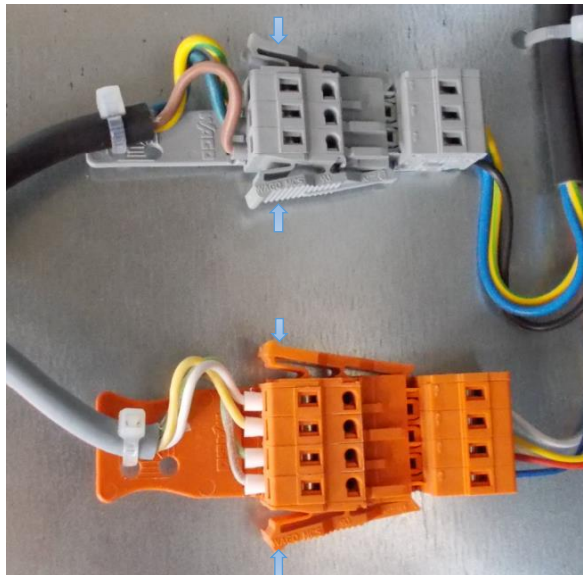
>Locking rim (yellow)	1	Polyamide	6
>Rotary handle (red)	1	Polyamide	10
Component Parts	Quantity	Material	Weight [g]
<b>Accessories</b>			
Cable glands	2	Polyamide	12
>Seal	2	Neoprene	5

 6.6. D  
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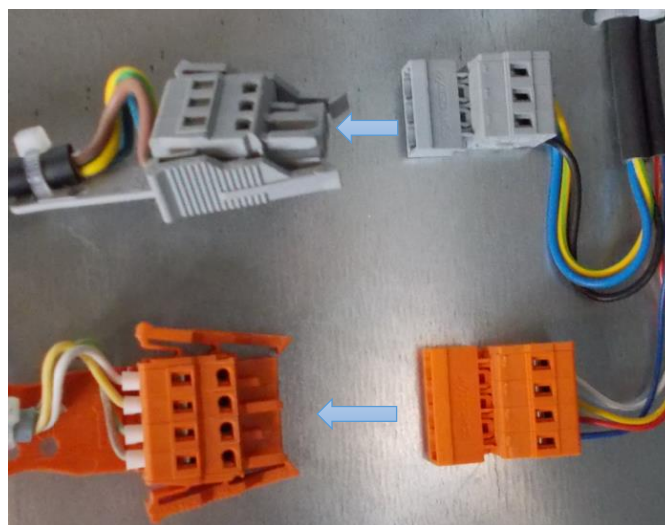
### assembly of the fan (internal fan housing)

#### 6.6.1. Removing the electrical wiring

- Where the handle pieces are situated, press the cable clamp firmly together (2x).



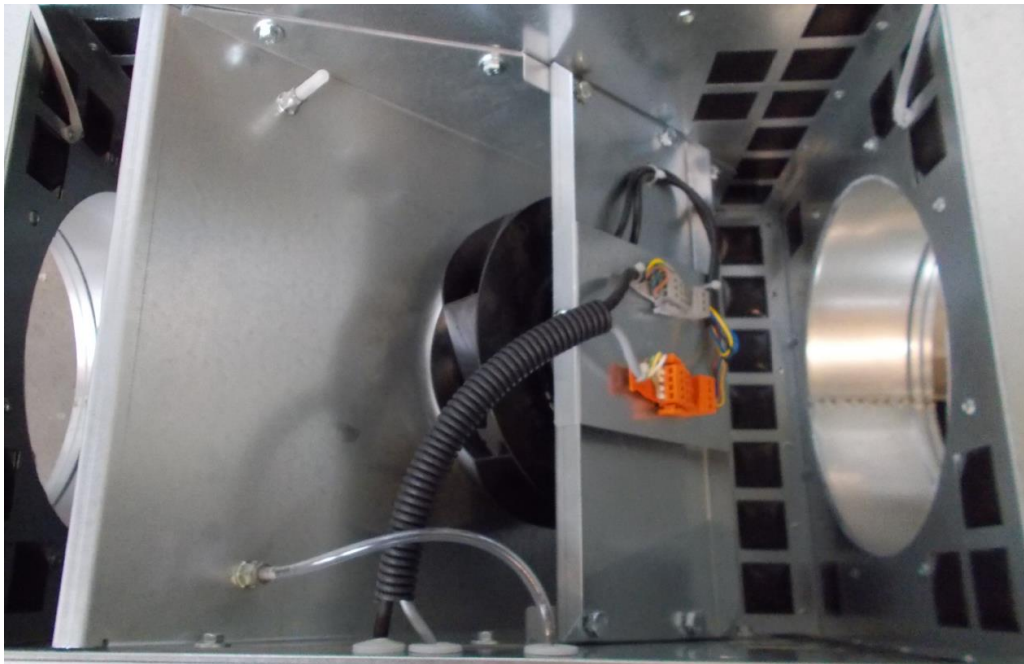
- Simultaneously, undo the cable clamps by pulling them apart (2x).



### 6.6.2. Removing the support frame of the fan from the casing

 Wrench

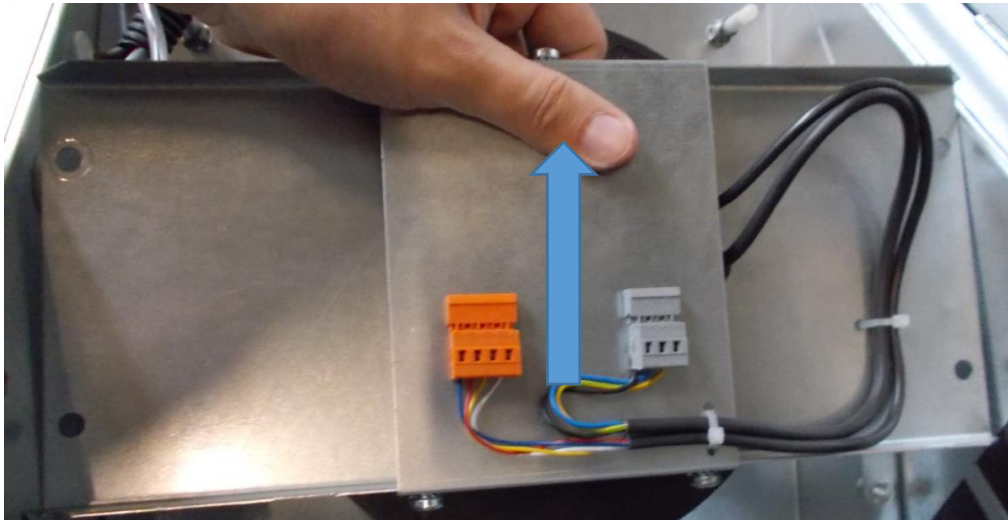
AF 13



- Remove the hexagon bolts M8 x 20 (4x) and their corresponding serrated washers M8 using a wrench AF 13.



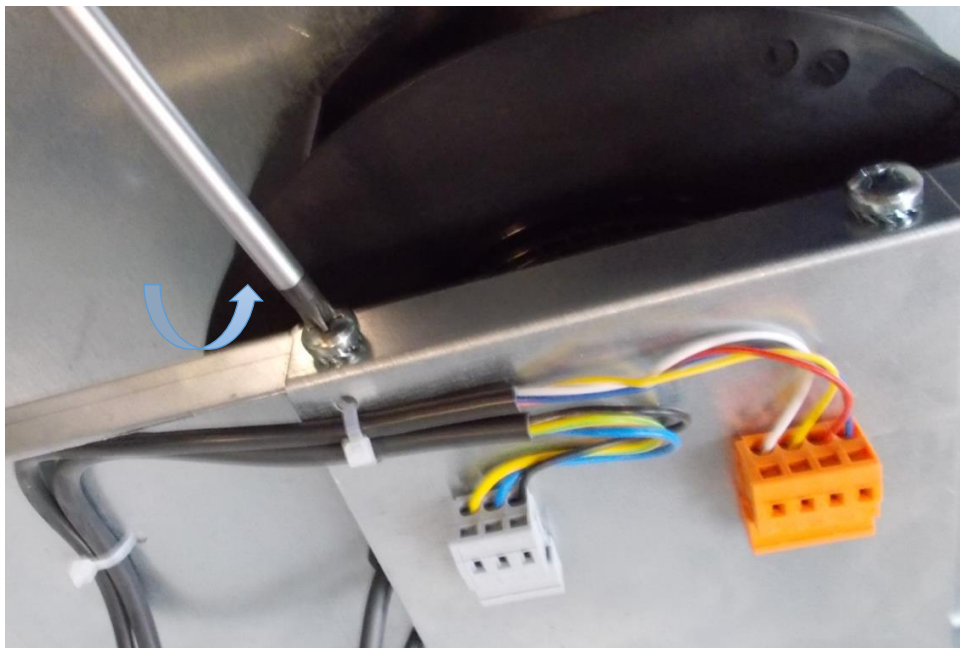
- Remove the support frame from the casing.



### 6.6.3. Loosing the retaining plate for the cable clamps

⊕ Screwdriver                      PZ 2

- Remove the cheese-head screws with cross recess M6 x 16 (3x) and their corresponding serrated washers M6 using a screwdriver PZ 2.

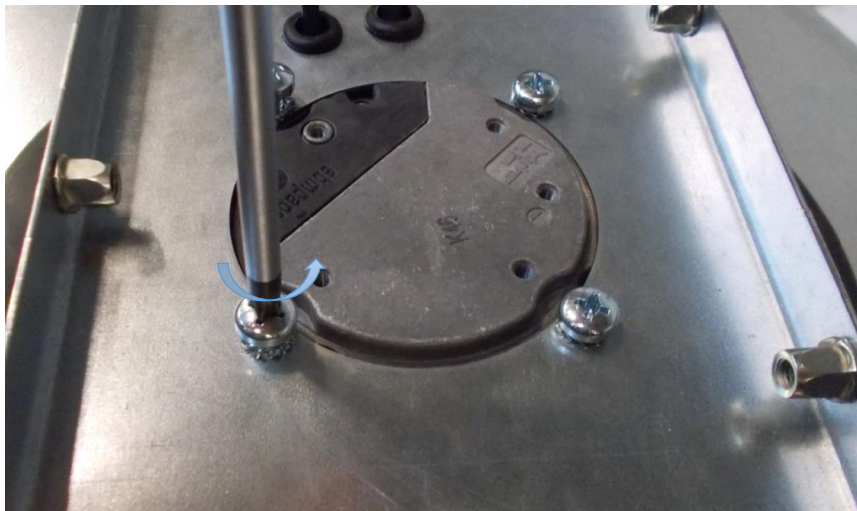






#### 6.6.4. Separating the fan from the support frame

⊕ Screwdriver                      PZ 2

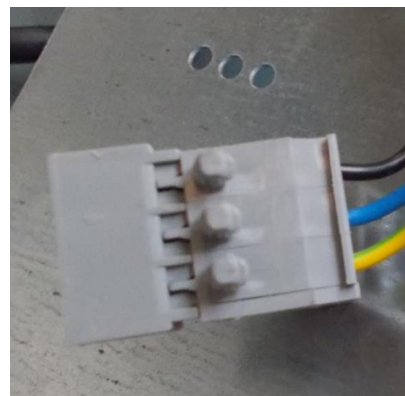
- Remove the cheese-head screw with cross recess M6 x 16 (4x) and their corresponding serrated washers M6 (4x) using a screwdriver PZ 2.



#### 6.6.5. Disconnecting the electrical wiring and the cable clamps from the support frame

 Side cutting plies                      universal  
 Combination plies                      universal

- Cut through the relevant cable ties (2x) using the side cutting plies.
- Remove the cable clamps (2x) from the retaining plate. Therefore, press together the retaining pins using the combination plies. Simultaneously, pull out the cable clamp.

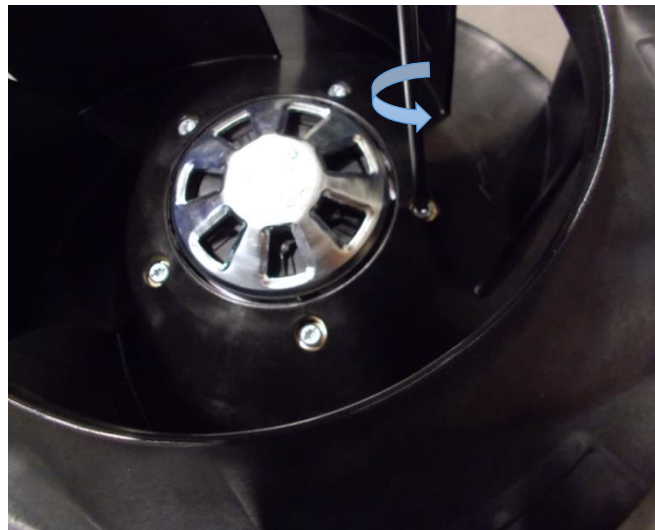




### 6.6.6. Disconnecting the fan impeller from the electric motor (starting from model VCZ 2)

⊖ Screwdriver 1.0 x 5.5

- Remove the cheese-head screws M8 x 20 (5x) using the screwdriver 1.0 x 5.5.



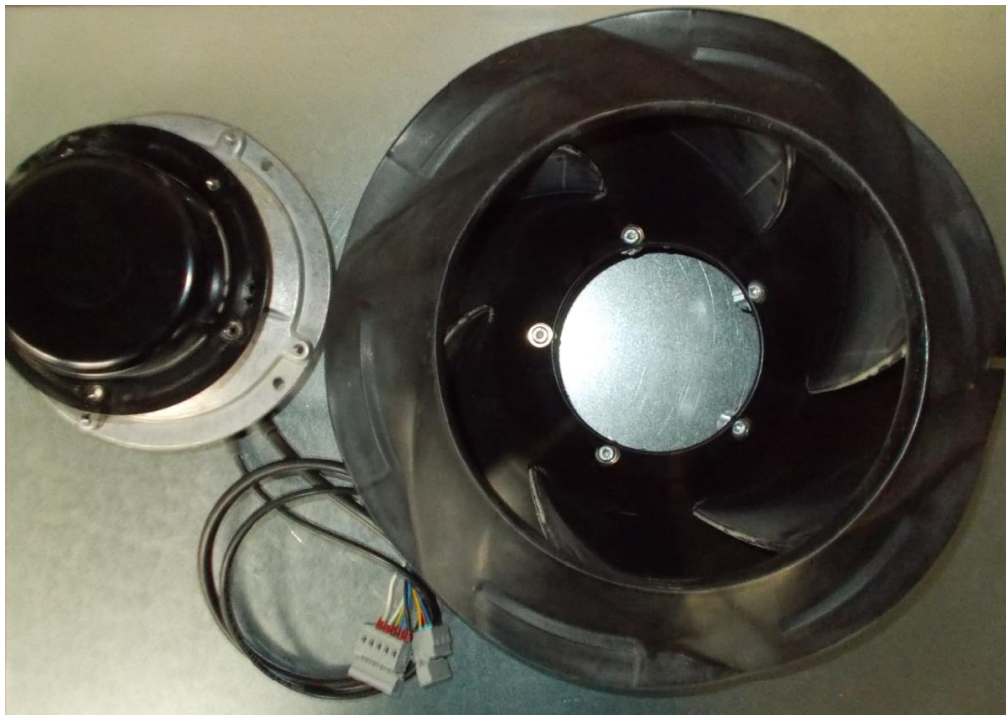
### 6.6.7. Removing the balance weights

⊖ Screwdriver 1.0 x 5.5

- Position the screwdriver 1.0 x 5.5 beneath the balance weight. Go on sliding the screwdriver underneath the balance weight until it comes loose.



## 6.7. Component Parts: Fan



Component Parts	Quantity	Material	Weight [g]
<b>Housing</b>			
Box	1	Polycarbonate	58
Case cover	1	Polycarbonate	28
>Cover screws	4	Polyamide 6	7
Cam switch	1	Metal / Polyamide	29
>Socket (clear)	1	Acryl	4
>Display (white)	1	Polyamide	>1
>Locking rim (yellow)	1	Polyamide	6
>Rotary handle (red)	1	Polyamide	10
<b>Accessories</b>			
Cable glands	2	Polyamide	12
>Seal	2	Neoprene	5

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