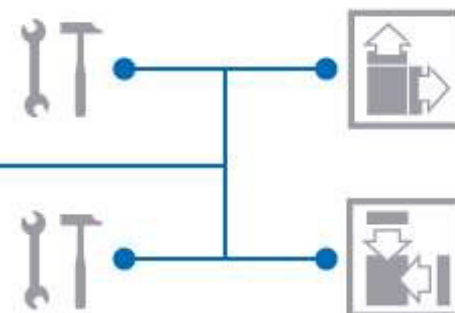




ABSU 12 (7 113 20 ...)





#### Technical data

All the technical data can be found in the operating instructions for the model.

#### Tests

Up-to-date test data and test instructions after repair can be found on the FEIN Extranet (Customer Service → Repair Guides).

#### Lubricants / Auxiliary substances

The lubricants or auxiliary substances and their container sizes available from FEIN can be found on the FEIN Extranet (Customer Service → Repair Guides).

#### Lists of spare parts

Lists of spare parts and exploded views are available online at [www.fein.com](http://www.fein.com)



#### Please note

These instructions are only intended for persons with suitable technical training. It is assumed that the reader has mechanical and electrical training.

**Only use original FEIN spare parts.**

#### Provisions

Please note that power tools may only be repaired, maintained and checked by a trained electrician, as improper repair can result in serious risks to the user.

The provisions set out in **DIN VDE 0701-0702** should be observed after repairs.

The relevant accident prevention regulations of the employer's liability insurance associations are to be observed when commissioning.

The German Equipment and Product Safety Act [ProdSG] applies for correct use.

**Outside Germany, the regulations applicable in the relevant country must be observed.**

**Lubricants and auxiliary substances required**



**Auxiliary substances**

Thread-locking fluid	medium strength	e.g. Loctite 243
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**ABSU 12; ABSU 12-W4****Troubleshooting**

<b>Fault</b>	<b>Cause</b>	<b>Remedy</b>
<b>LED not lighting up</b>	<b>Cable/plug defective</b>	<b>Replace LED</b>
	<b>LED defective</b>	<b>Replace LED</b>
	<b>Electronics defective</b>	<b>Replace machine</b>
<b>Motor not moving</b>	<b>Mechanical defect</b>	<b>Replace motor</b>
	<b>Cable defective</b>	<b>Replace cable</b>
	<b>Toggle switch defective</b>	<b>Replace toggle switch</b>
	<b>Switch defective</b>	<b>Replace switch</b>
	<b>Battery plug contacts have come loose</b>	<b>Check components</b>
	<b>Electronics defective</b>	<b>Replace machine</b>
<b>Motor only turns in one direction</b>	<b>Toggle switch defective</b>	<b>Replace toggle switch</b>
	<b>Switch defective</b>	<b>Replace switch</b>
<b>Unusual noise from gearbox (rattling)</b>	<b>Gearbox defective</b>	<b>Replace machine</b>
<b>Torque shut-off cannot be adjusted</b>	<b>Adjusting ring defective</b>	<b>Replace adjusting ring</b>

## ABSU 12; ABSU 12-W4

### Troubleshooting

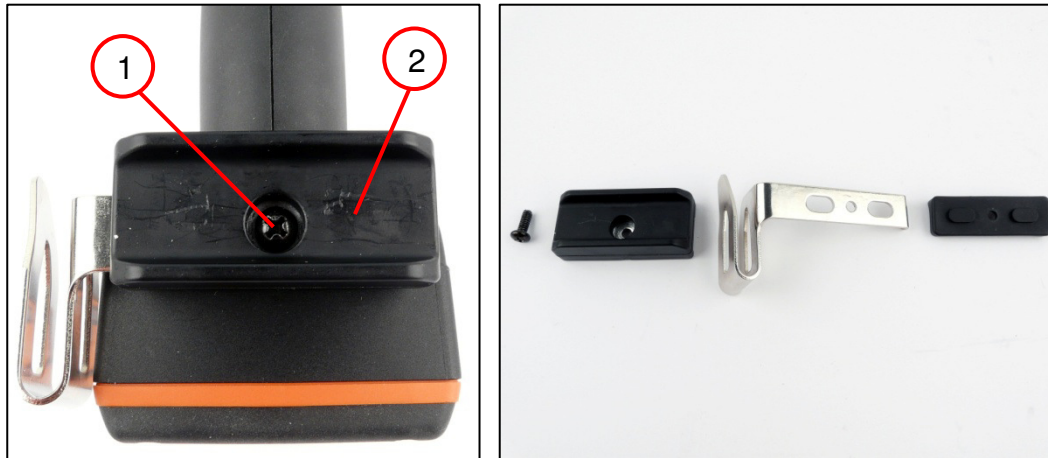


Fault	Cause	Remedy
Slide switch stiff	Slide switch dirty	Clean and lubricate slide switch
	Slide switch defective	Replace slide switch
Drill chuck jaws stuck (ABSU12)	Drill chuck opened using machine drive	Replace drill chuck
Tool holder stiff (ABSU12-W4)	Dirt	Clean and lubricate tool holder
	Tool holder defective	Replace tool holder



### Removal

#### Removing the holder



1. Unscrew the screw (1).
2. Remove the holder (2).

#### Tools:

- PH2 cross-tip screwdriver



### Removal

#### Removing the battery



1. Press and hold the catch (1).
2. Pull off the battery.





### Removal

#### Removing the drill chuck (ABSU 12)



1. Open the drill chuck.
2. Unscrew the screw (1) in the drill chuck [left-handed thread].

#### Tools:

- PH2 cross-tip screwdriver



### Removal

#### Removing the drill chuck (ABSU 12)



1. Clamp the mandrel (1) into the drill chuck.
2. Unscrew the drill chuck (2) with the mandrel.
3. Open the drill chuck and remove the mandrel.

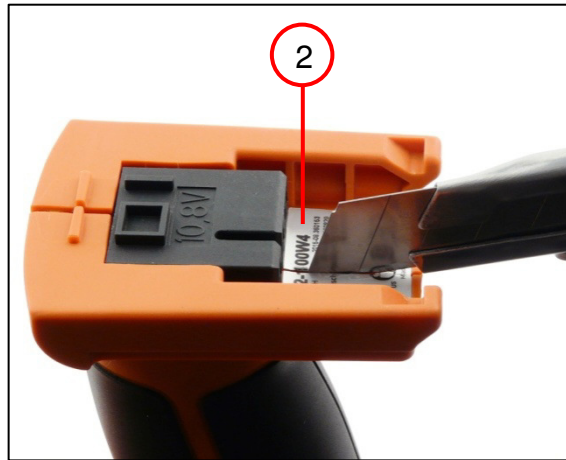
#### Tools:

- Mandrel
- Torque wrench



## Removal

### Removing the motor housing



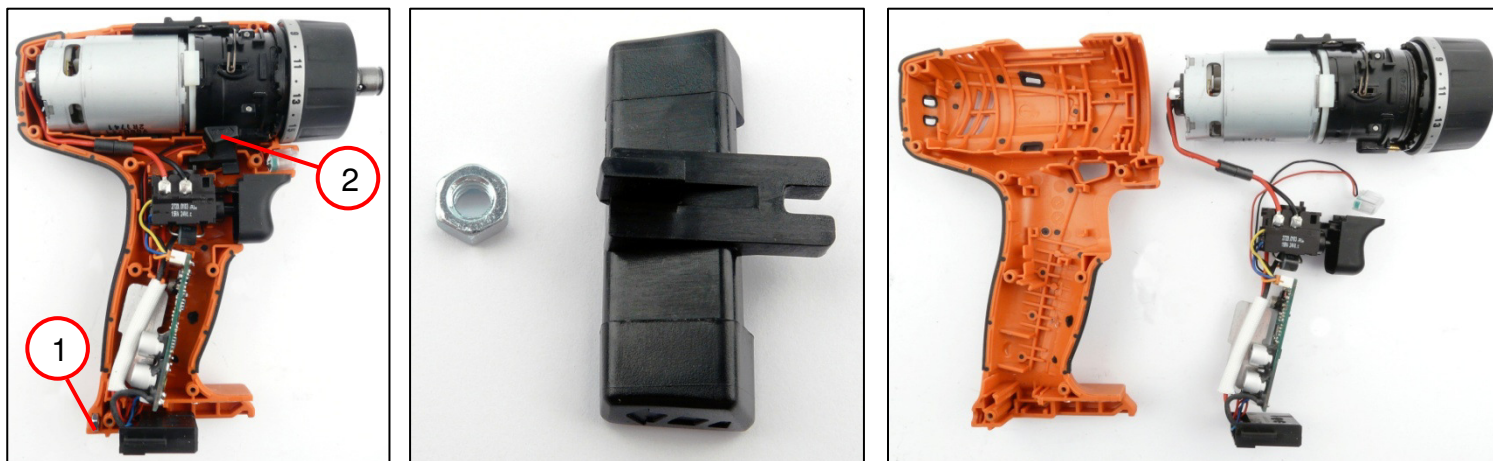
1. Unscrew the nine screws (1).
2. Cut through the type plate (2).
3. Remove the motor housing (3).

#### Tools:

- Torx T10
- Blade

### Removal

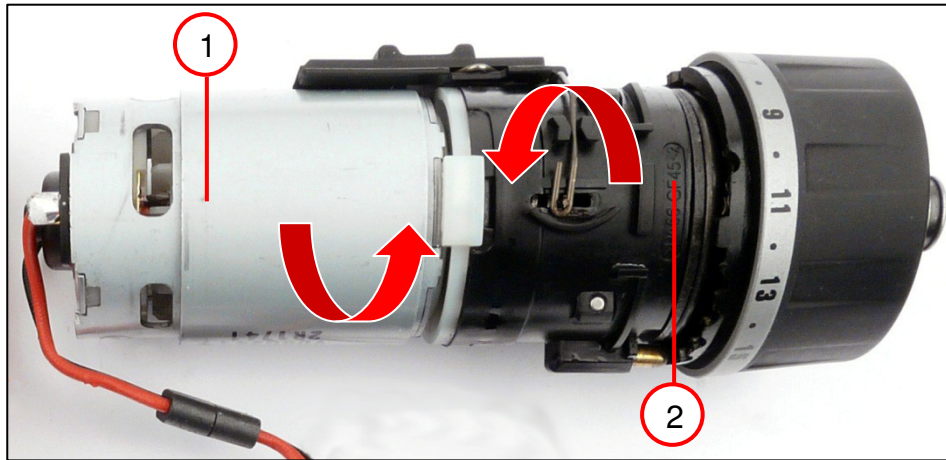
#### Removing the motor housing



1. Remove the nut (1).
2. Remove the toggle switch (2).
3. Remove the gearbox, the motor and the switch from the motor housing.

### Removal

#### Removing the motor

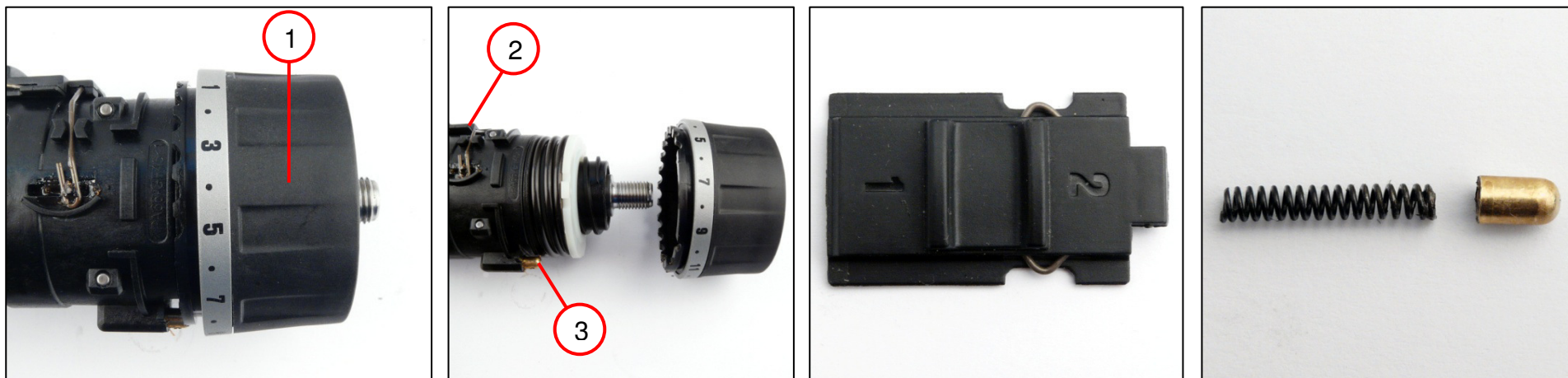


1. Turn the motor (1) and the gearbox (2) in opposite directions.
2. Remove the gearbox (2).



## Removal

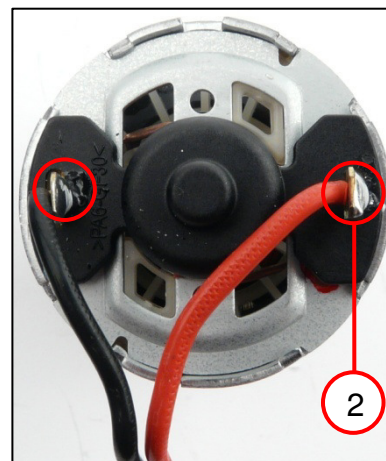
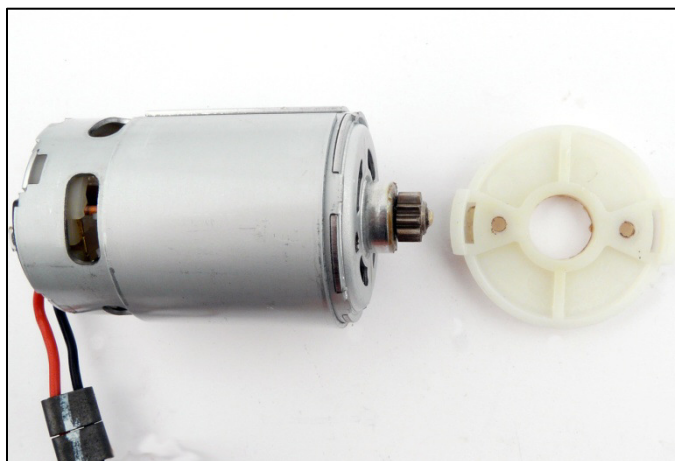
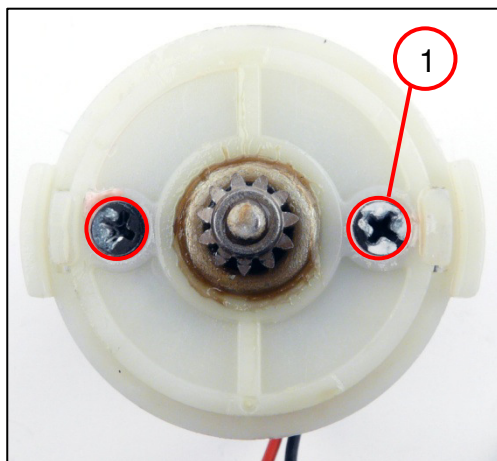
### Removing the adjusting ring



1. Remove the adjusting ring (1).
2. Remove the slide switch (2).
3. Remove the bolt with spring (3).

### Removal

#### Removing the motor



1. Unscrew the two screws (1).
2. Unsolder the two cables (2).

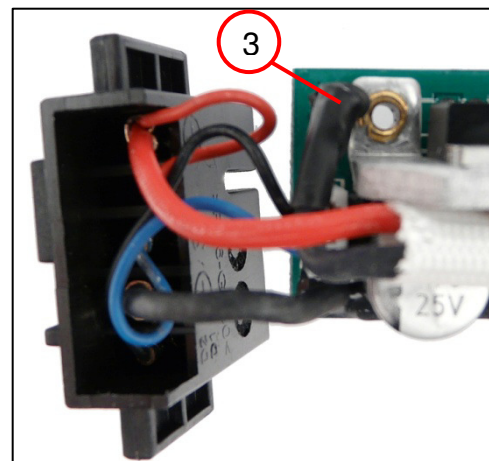
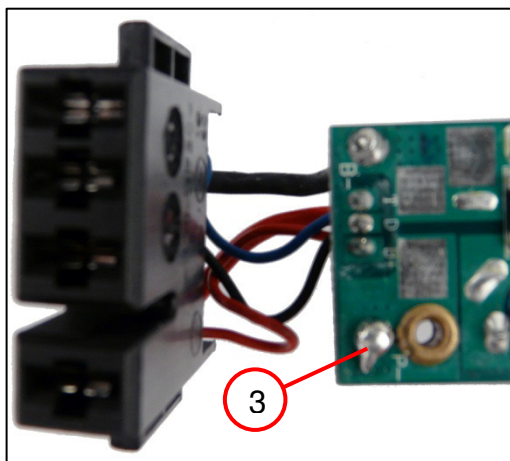
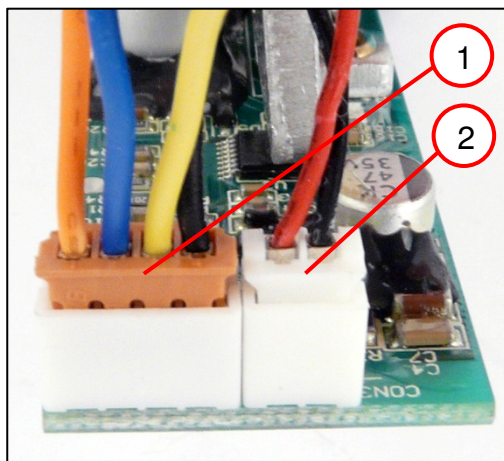
**Tools:**

- PH1 cross-tip screwdriver
- Soldering station



### Removal

#### Removing the switch and LED



1. Remove the plug (1).
2. Remove the plug of the LED (2).
3. Unsolder the cable (3).

#### Tools:

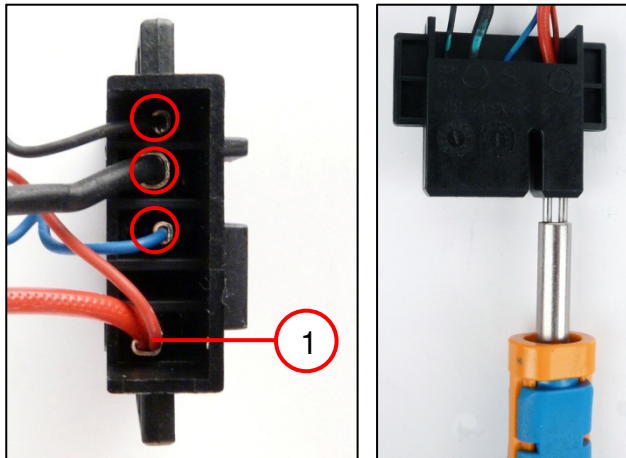
- Soldering station





## Removal

### Removing the plug



1. Disconnect the cables (1).

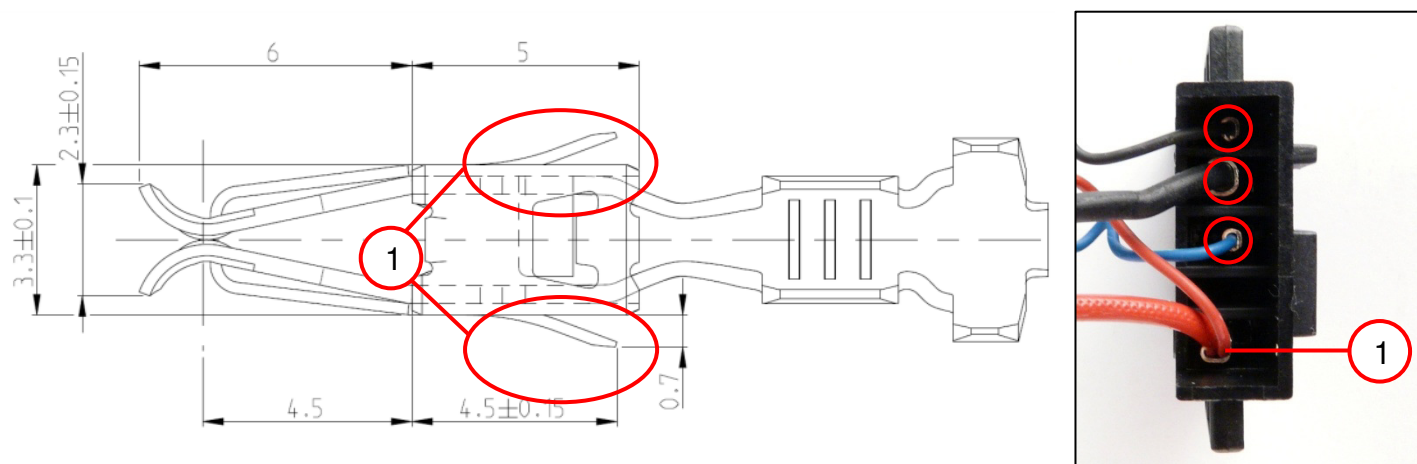
#### Tools:

- Unlocking tool



## Fitting

### Fitting the plug



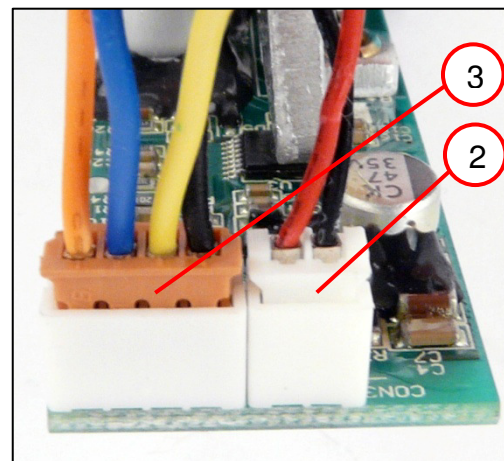
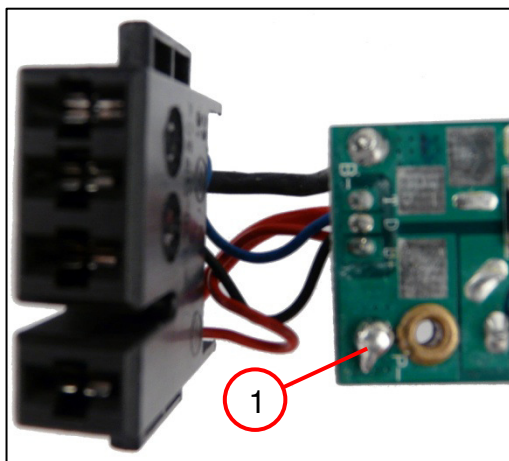
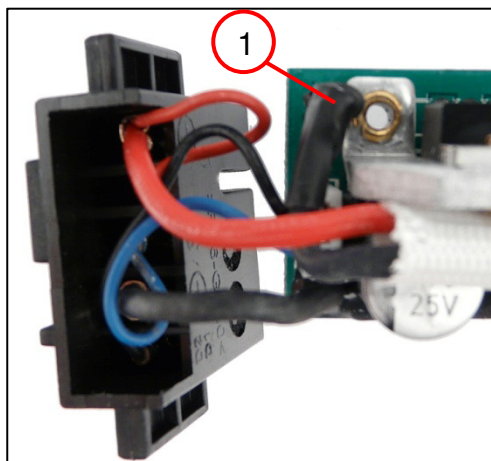
1. Bend the mountings (1) of the female push-on connector to the specified dimension.  
 ☞ The mountings must be bent before assembly, otherwise the connectors will not engage with the plug.
2. Connect the four cables to the plug (2) as shown in connection diagram.

#### Tools:

- Long-nosed pliers



### Fitting the switch and LED



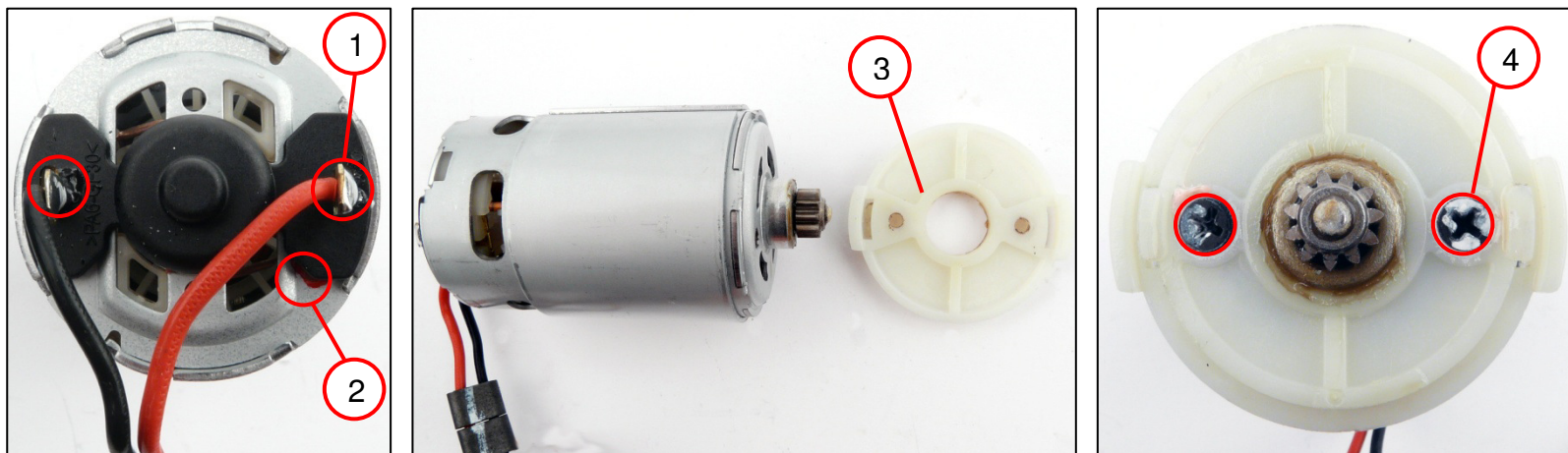
1. Solder the cable (1).
2. Insert the plug of the LED (2).
3. Connect the plug (3).

#### Tools:

- Soldering station

## Fitting

### Fitting the motor



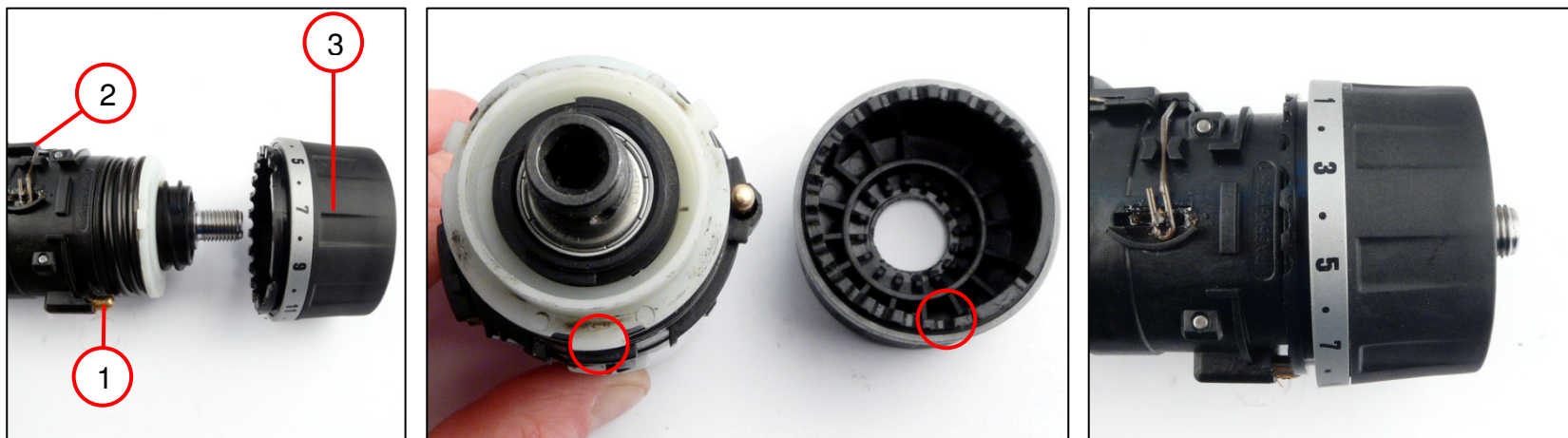
1. Solder the two cables (1).  
☞ Red cable at red mark (2).
2. Position the flange (3) in the correct position.
3. Coat the two screws (4) with thread-locking fluid.
4. Screw in the two screws (4) [1.2 Nm].

#### Tools:

- Soldering station
- Torque wrench PH1

## Fitting

### Fitting the adjusting ring

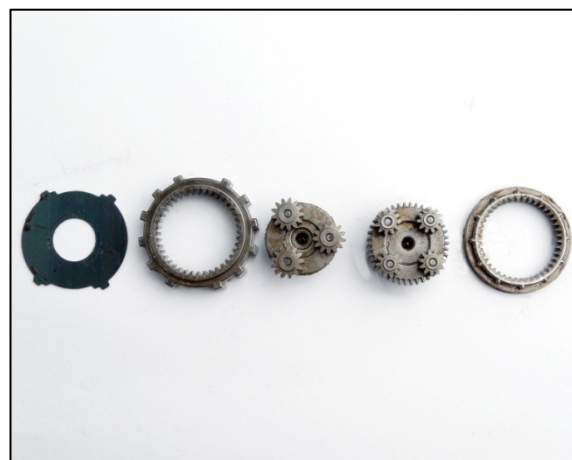
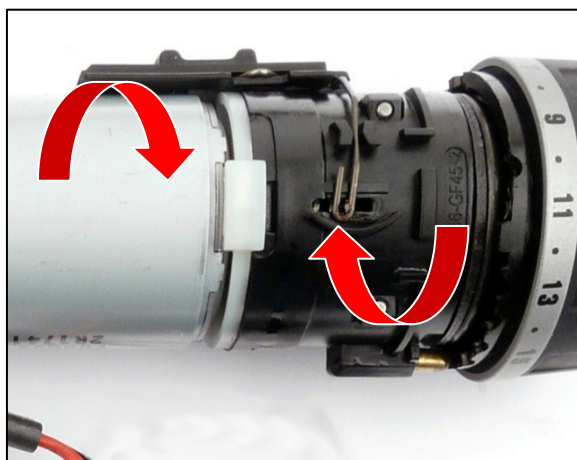
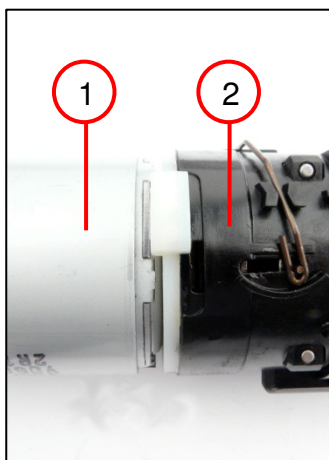


1. Insert the bolt with spring (1).
2. Fit the slide switch (2).
3. Fit the adjusting ring (3) in the correct position.
  - ☞ Screw the adjusting ring all the way in.





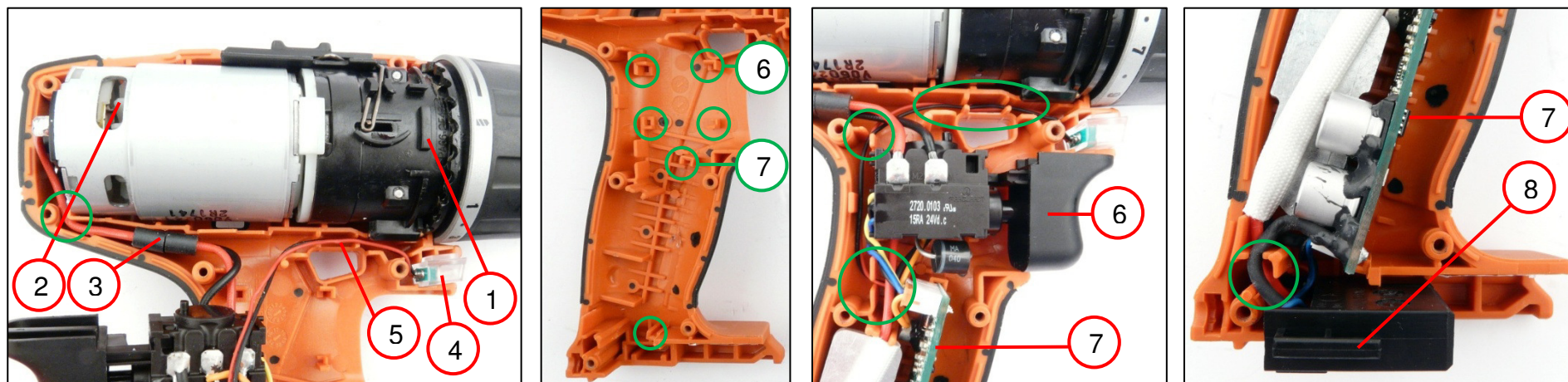
### Fitting the motor



1. Slide the motor (1) into the gearbox (2) in the correct position.
2. Turn the motor (1) and the gearbox (2) in opposite directions.



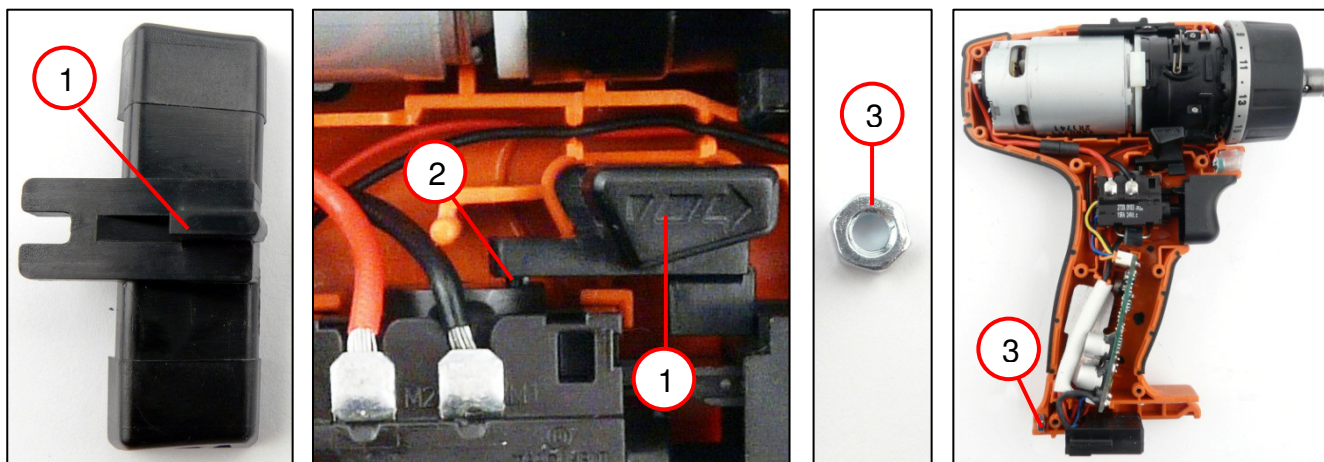
### Fitting the motor housing



1. Insert the gearbox (1) and the motor (2) into the motor housing in the correct position.
2. Route the cables (3).
3. Insert the LED (4).
4. Route the cables (5).
5. Insert the switch (6), the electronics (7) and the plug (8).
  - ☞ Observe the guides.
  - ☞ Observe correct cable routing.

## Fitting

### Fitting the motor housing



1. Insert the toggle switch (1) into the lock of the switch (2) in the correct position.
2. Insert the nut (3).





### Fitting

#### Fitting the motor housing



1. Fit the motor housing.
2. Screw in the nine screws (1) [1.2 Nm].

#### Tools:

- Torque wrench T10

### Fitting

#### Fitting the drill chuck (ABSU 12)



1. Clamp the mandrel (1) into the drill chuck.
2. Screw the drill chuck (2) with mandrel onto the machine [25 Nm].
3. Open the drill chuck and remove the mandrel.

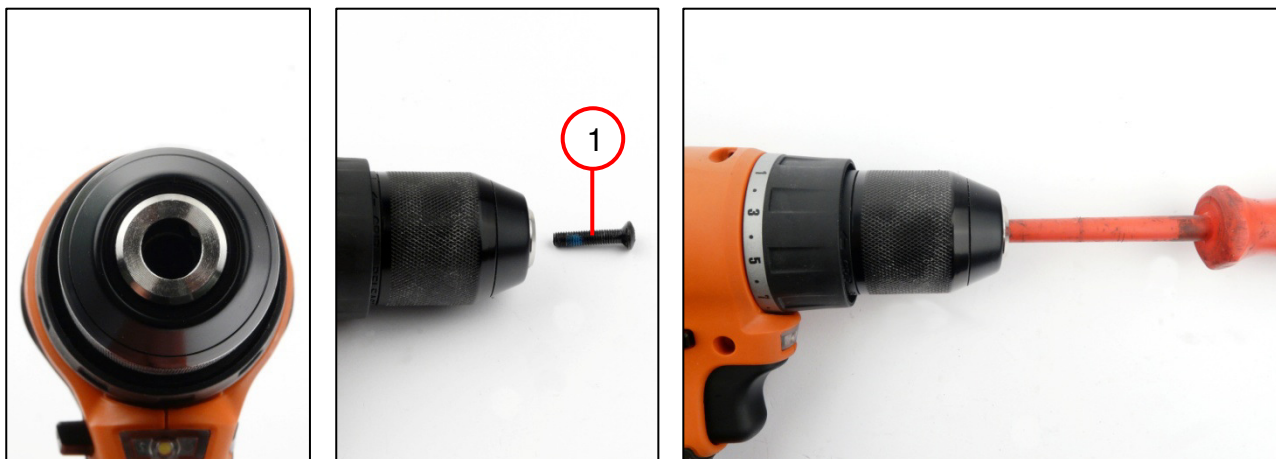
**Tools:**

- Mandrel
- Torque wrench



### Fitting

#### Fitting the tool holder (ABSU 12)



1. Coat the screw (1) with thread-locking fluid.
2. Screw the screw (1) into the drill chuck [3 Nm] [left-handed thread].

**Tools:**

- Torque wrench PH2



## Fitting

### Fitting the battery



1. Slide on the battery (1).



## Fitting

### Fitting the holder



1. Place the holder (1) on motor housing in the correct position.
2. Screw in the screw (2) [1.2 Nm].

#### Tools:

- Torque wrench PH2

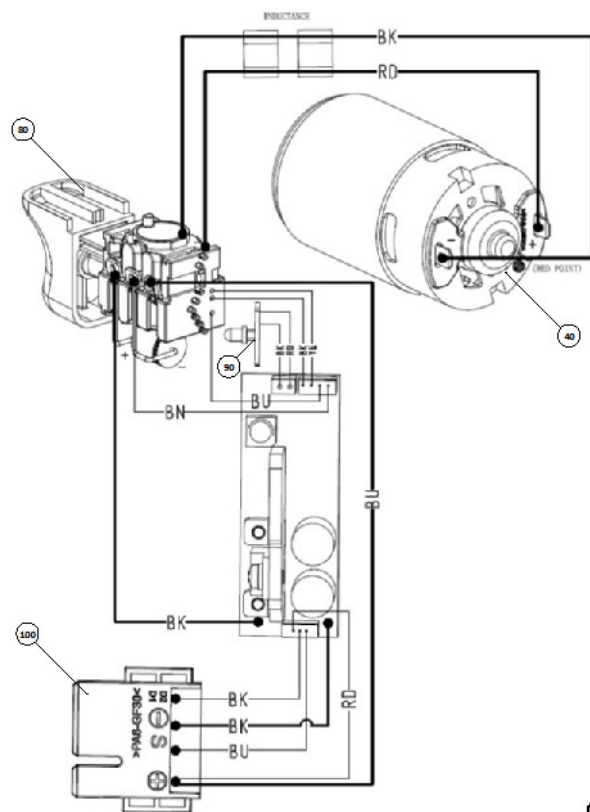
# ABSU 12; ABSU 12-W4



## Connection diagram

Anschlussplan  
Connection diagram  
Esquema de conexiones  
Schéma connexion  
Схема соединений  
接线图

7 113 20 – ABSU12 / 12V  
7 113 21 – ABSU12 W4 / 12V  
7 115 03 – ASCD12-100 W4 / 12V



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12.11.2015

