

## Installation Instructions

**Installing sensor parts**

Prosonic Flow 92F, Prowirl 72, 73, Prowirl 200

**Installation Instruction is valid for the following spare parts:**

Order No	Device component	Order No	Device component
50093513	Kit gasket Prowirl 77, 72, 73, 200 1 × gasket 25.0/20 × 0.76 mm, (1.0/0.79 × 0.03 inch) Kalrez	50103884	Kit connection board Prowirl 72, 73 FS electronic Ex 1 × connection board L48 FS transmitter VDM Ex
50093514	Kit 10 gaskets Prowirl 77, 72, 73, 200 10 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton	50103885	Kit connection board Prowirl 72, 73 FS sensor Ex 1 × connection board L47 FS sensor VDM Ex
50093627	Kit 10 gasket Prowirl 70, 72, 200 10 × gasket flat 17.0/9.5 × 1.0 mm (0.67/0.37 × 0.04 inch) Grafoil	50103892	Kit gaskets housing Prowirl 72, 73 compact 1 × O-Ring 113.90 × 3.53 (4.48 × 0.14 inch) NBR 1 × O-Ring 49.21 × 3.53 (1.93 × 0.14 inch) NBR 1 × O-Ring 73.00 × 3.00 (2.87 × 0.12 inch) NBR
50095114	Kit 10 gasket Prowirl 77, 72, 73, 200 10 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon	50103893	Kit gaskets housing Prowirl 72, 73 FS 2 × O-Ring 113.90 × 3.53 (4.48 × 0.14 inch) 2 × O-Ring 49.21 × 3.53 (1.93 × 0.14 inch) 1 × O-Ring 47.00 × 5.34 (1.85 × 0.21 inch) 2 × O-Ring 73.00 × 3.00 (2.87 × 0.12 inch)
50103474	Kit preamplifier Prowirl 72, 73 1 × preamplifier V05 Prowirl		
50103479	Kit DSC-sensor Prowirl 72 standard Basic version, 316L, -40 to +260 °C, (-40 to +500 °F) 1 × sensor Prowirl 72 complete, 4 × screw M5 × 12 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon	50106028	Kit DSC-sensor PW73 high/low temperature 316L + Temp. Sensor, -200 to +400 °C (-330 to +750 °F) 1 × sensor Prowirl 73 complete thermal sensor 4 × screw M5 × 12 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon
50103480	Kit DSC-sensor Prowirl 72 standard 3.1 Basic version, 316L, -40 to +260 °C, (-40 to +500 °F) 1 × Sensor Prowirl 72 complete 3.1, 4 × screw M5 × 12 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex Z 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon	50106029	Kit DSC-sensor PW73 high/low temperature 3.1 316L + Temp. Sensor, -200 to +400 °C (-330 to +750 °F) 1 × sensor Prowirl 73 complete thermal sensor 3.1 B 4 × screw M5 × 12 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon
50103481	Kit DSC-sensor Prowirl 72 high-/low temperature 3.1 High/low temp., 316L, -200 to +400 °C (-330 to +750 °F) 1 × sensor Prowirl 72 complete HT 3.1 4 × screw M5 × 12 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex Z 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon	71023367	Kit DSC-sensor Prowirl 72 max pressure 3.1 Titanium, -50 to +400 °C (-60 to +750 °F) 1 × sensor Prowirl W72 complete max pressure 3.1 Exd 4 × screw M10 × 35 1 × gasket 17.5/10 × 0.8 mm (0.68/0.4 × 0.04 inch) Grafoil
50103482	Kit DSC-sensor Prowirl 72, 77 Alloy C-22, 3.1 Alloy C-22, -200 to +400 °C (-330 to +750 °F) 1 × sensor Prowirl 72 complete HT C-22 3.1, 4 × screw M5 × 12 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex Z 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon	71026988	Kit gaskets housing 92F FS 3 × O-Ring 113.90 × 3.53 (4.48 × 0.14 inch) 1 × O-Ring 73.00 × 3.00 (2.87 × 0.12 inch) 1 × O-Ring 47.00 × 5.34 (1.85 × 0.21 inch) 1 × O-Ring 52.39 × 3.53 (2.06 × 0.14 inch)
50103483	Kit DSC-sensor Prowirl 72 high pressure 3.1 Inconel 718, -200 to +400 °C (-330 to +750 °F) 1 × sensor Prowirl 72 complete high pressure 3.1 4 × screw M8 × 20 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex HD 1 × gasket 25.0/20 × 0.1 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.04 inch) Gylon	71026990	Kit gaskets housing 92F compact 1 × O-Ring 113.90 × 3.53 (4.48 × 0.14 inch) 1 × O-Ring 73.00 × 3.00 (2.87 × 0.12 inch) 1 × O-Ring 47.00 × 5.34 (1.85 × 0.21 inch) 1 × O-Ring 52.39 × 3.53 (2.06 × 0.14 inch)

Order No	Device component	Order No	Device component
71026991	Kit connection board 92F FS electronic Ex 1 × connection board L55 FS 1 × cable tree complete 92F Prosonic F FS	71034588	Kit 20 gaskets Prowirl 77, 72, 73, 200 20 × gasket 25/20 × 1 mm (1.0/0.79 × 0.04 inch) Sigraflex Z
71026992	Kit connection board 92F FS sensor Ex 1 × connection board L55 FS	71117952	Kit DSC-sensor PW 73 high pressure 3.1 1 × sensor PW73 complete HP, 4 × screw M8 × 20, 3.1 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex HD 1 × gasket 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Viton 1 × gasket 25.0/20 × 0.8 mm (1.0/0.79 × 0.03 inch) Gylon
71034586	Kit gaskets 77, 72, 73, 200 HD 5 × Dichtungsscheibe 25.0/20 × 1.0 mm (1.0/0.79 × 0.04 inch) Sigraflex HD		

**NOTICE**

- The order number of the spare part set (on the packaging label) can differ from the product number (on the label directly on the spare part)!
- The order number of the relevant spare part set can be found by entering the product number of the spare part in the spare parts finder.
- We recommend that the Installation Instructions be kept with the packaging at all times.

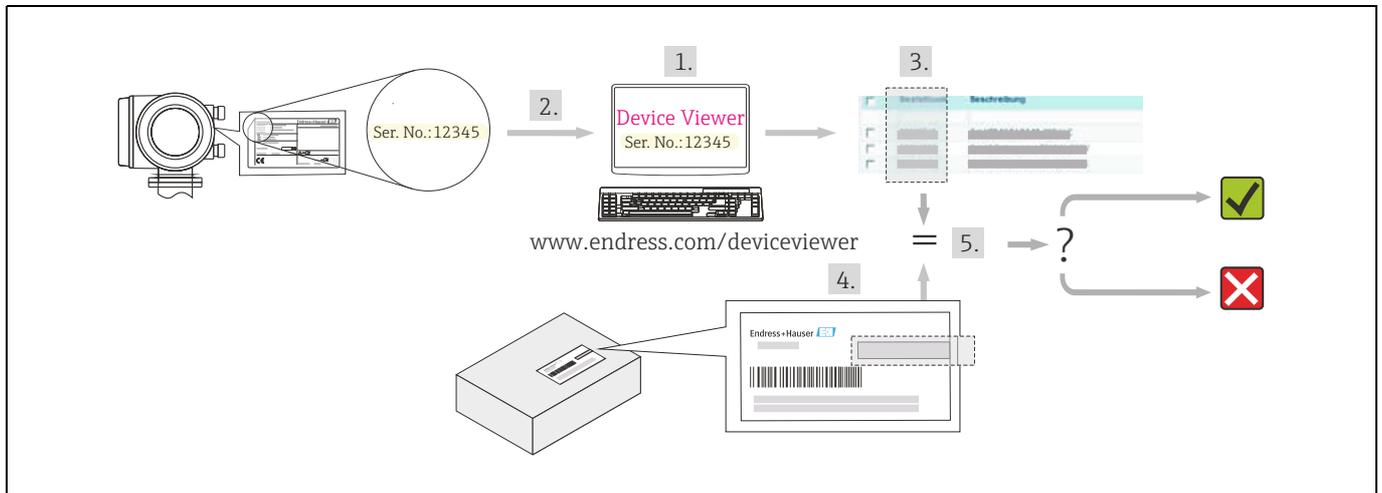
**Confirmation whether the spare part is permitted to be used with the measuring device**

The spare parts set and Installation Instructions are used to replace a faulty unit with a functioning unit of the same type. Use genuine parts from Endress+Hauser only.

Only original spare parts supplied by Endress+Hauser shall be used with the measuring device. Therefore, before use, check whether the spare part set is compatible with the measuring device.

A spare parts overview label is located in the connection compartment cover of the measuring device. If there is no label or the spare part is not listed the appropriate spare part can also be identified via W@M Device Viewer.

How carrying out such a check via the W@M Device Viewer is described below:



A0016264

1. Choose the Endress+Hauser Device Viewer via web browser: [www.endress.com/deviceviewer](http://www.endress.com/deviceviewer)
2. Enter the serial number (Ser. No.) of the device into the W@M Device Viewer (on the label of the transmitter), then click on "Spare parts".
3. The list of the available spare parts for the device is displayed.
4. Check the order number on the packaging label of the spare part set.
5. Check whether the order number of the spare part set is specified in the list displayed by the device viewer:

✓ = YES, the spare part can be used.

✗ = NO, the spare part may not be used.

If you have any questions, contact your Endress+Hauser service organization.

## Overview of the personnel authorized to carry out repair

Authorization to carry out a repair depends on the approval of the measuring device. The table shows the respective group of persons for each.

### NOTICE

The person who carries out the repair is responsible for safety during the work, the quality of work completed and safety of the device after repair.

Approval of the measuring device	Group of persons authorized to carry out repair
without approval	2, 3
with approval (for Ex. IECEx, ATEX, FM, CSA, TIIS, NEPSI)	2, 3

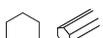
- 1 Trained customer technician
- 2 Service technician authorized by Endress+Hauser
- 3 Endress+Hauser (send measuring device back to manufacturer)

After sensor removal a pressure test principally is recommended. The pressure test is required for devices which had been delivered with Option PED or a pressure test certificate.

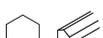
## Safety instructions

- Check whether the spare part matches the identification label on the measuring device, as explained on the previous page.
- The spare parts set and Installation Instructions are used to replace a faulty unit with a functioning unit of the same type. Use genuine parts from Endress+Hauser only.
- In the case of Ex-certified measuring devices: Only open in a de-energized state (once a delay of 10 minutes has elapsed after switching off the power supply) or in environments which do not have a potentially explosive atmosphere.
- Before removing the device: set the process in a safe condition and purge the pipe of dangerous materials.
- Comply with national regulations governing mounting, electrical installation, commissioning, maintenance and repair procedures.
- Requirements with regard to specialized technical staff for the mounting, electrical installation, commissioning, maintenance and repair of the measuring devices:
  - trained in instrument safety
  - familiar with the individual operation conditions of the devices
  - for Ex-certified measuring devices: also trained in explosion protection
- Follow the Operating Instructions for the device.
- Risk of damaging electronic components! Ensure you have a working environment protected from electrostatic discharge.
- Modifications to the measuring device are not permitted.
- In the case of measuring devices in safety-related applications in accordance with IEC 61508 or IEC 61511: After repair recommission in accordance with Operating Instructions. Document the repair procedure.
- Only open housing for a brief period. Avoid the penetration of foreign bodies, moisture or contaminants.
- Replace defective seal/gaskets with genuine parts from Endress+Hauser only.
- If threads are damaged or defective, the measuring device must be repaired.
- Threads (e.g. of the cover for the electronics and connection compartments) must be lubricated. Use an acid-free, non-hardening grease if an abrasion resistant dry lubricant is non-existent.
- If spacing is reduced or the dielectric strength of the measuring device cannot be guaranteed during repair work, perform a test on completion of the work (e.g. high-voltage test in accordance with the manufacturer's instructions).
- Service connector:
  - do not connect in potentially explosive atmospheres.
  - only connect to Endress+Hauser service devices.
- Observe the instructions for transporting and returning the device outlined in the Operating Instructions.
- If you have any questions, contact your E+H service organization.

### Tool List for Prosonic Flow 92 F, Prowirl 72, 73

 8 mm, 17 mm	 3, 4, 5, 6 mm	 0.5 × 3.5 mm	 T10, T20	acid free, non hardening grease
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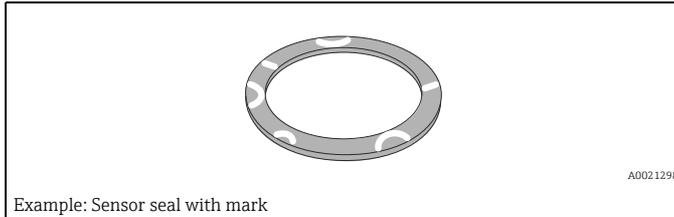
### Tool List for Prowirl 200

 8 mm, 17 mm	 3, 4, 5, 6 mm	 0.5 × 3.5 mm	 T10, T20
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## Important advice to the replacement of the sensor compact and remote version

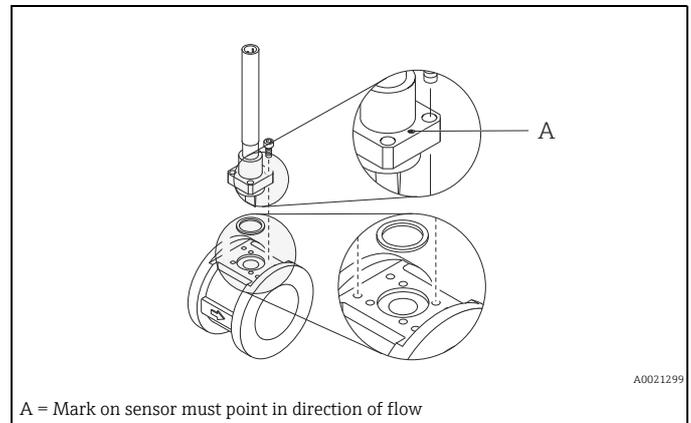
### **⚠ DANGER**

1. The sealing surface must not get scratched.
2. Remove sealing disk using a suitable tool, without scratching the sealing surface.
3. Clean the sealing surface on the meter body using a suitable solvent and lint-free cloth.
4. The bore in which it sits must be completely clean.
5. Place the new sensor seal on the sealing surface with the inscription (if present) facing upwards.



6. Apply grease to the thread and head contacts of the sensor screws.
7. Apply one drop of grease to both the thread and the connecting surfaces of the screws. The grease used must be suited to the application temperature range. The high-temperature paste HTP (50048898) is recommended.

8. For orientation DSC-Sensor see the graphic below:



### **⚠ DANGER**

- To replace the sensor, the piping must be completely depressurized. The residual pressure on the piping may cause the sensor eject rapidly as soon as the mounting screws are released!
- In the case of toxic, explosive or combustible media, the piping in which the measuring device is installed must be decontaminated prior to replacing the sensor!
- Let the the pipe cool down to a safe temperatures before starting the work.

### Overview de-assembly Prosonic Flow 92F, Prowirl 72, 73

Removing the components of the device:	page
Removing the transmitter Prosonic Flow 92F, Prowirl 72, 73 compact version and remote version	5
Replacing the gasket, O-ring, connection board for transmitter wall mounting Prosonic Flow 92F, Prowirl 72, 73	5
Replacing the O-ring, connection board and seal for transmitter remote version Prowirl 72, 73	6
Replacing the O-ring, connection board for transmitter remote version Prosonic Flow 92F	6
Replacing the DSC-sensor and the seal sensor Prowirl 72, 73	7

### Overview assembly Prosonic Flow 92F, Prowirl 72, 73

Mounting the components of the device:	page
Assembly Prosonic Flow 92F, Prowirl 72, 73	8
Recommended torques Prowirl 72, 73	8

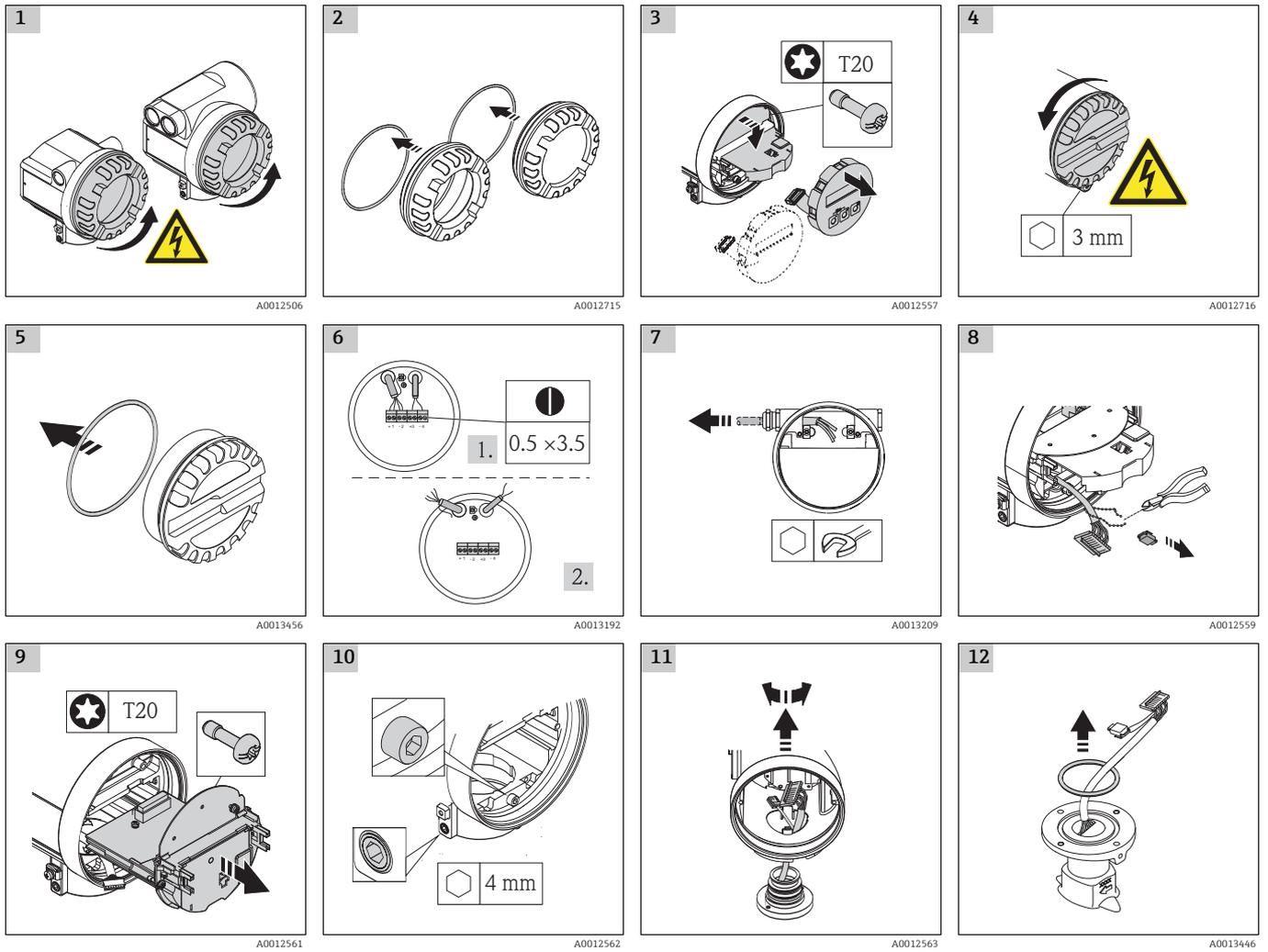
### Overview de-assembly Prowirl 200

Removing the components of the device:	page
Removing the transmitter Prowirl 200 compact version	9
Removing the connection housing Prowirl 200 remote version	10
Removing the DSC-sensor	11

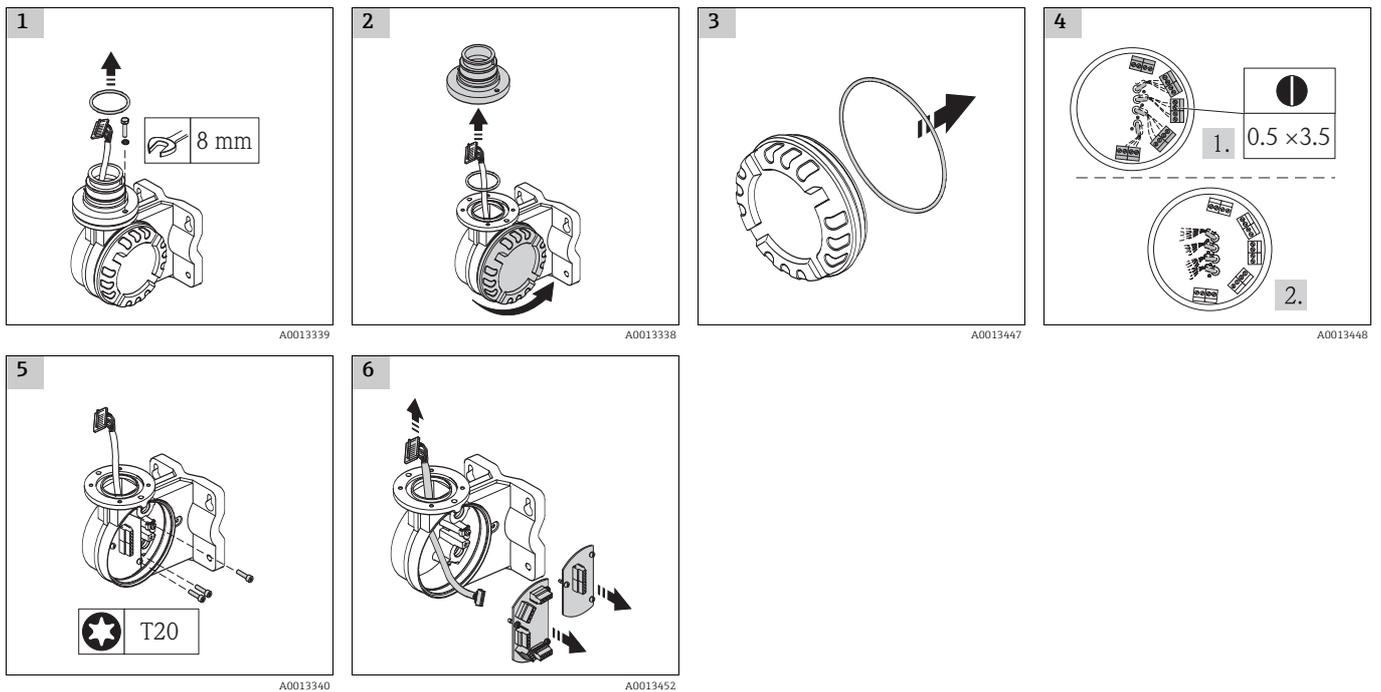
### Overview assembly Prowirl 200

Mounting the components of the device:	page
Mounting the DSC-sensor	12
Mounting the transmitter Prowirl 200 compact version	13
Mounting the connection housing Prowirl 200 remote version	14
Recommended torques Prowirl 200	15

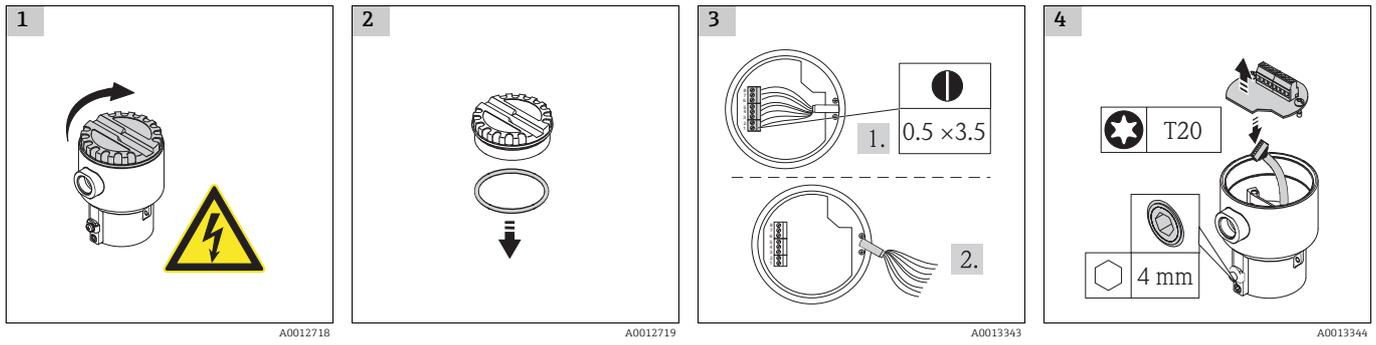
**A Removing transmitter compact- and remote version Prowirl 72, 73, Prosonic Flow 92 F**



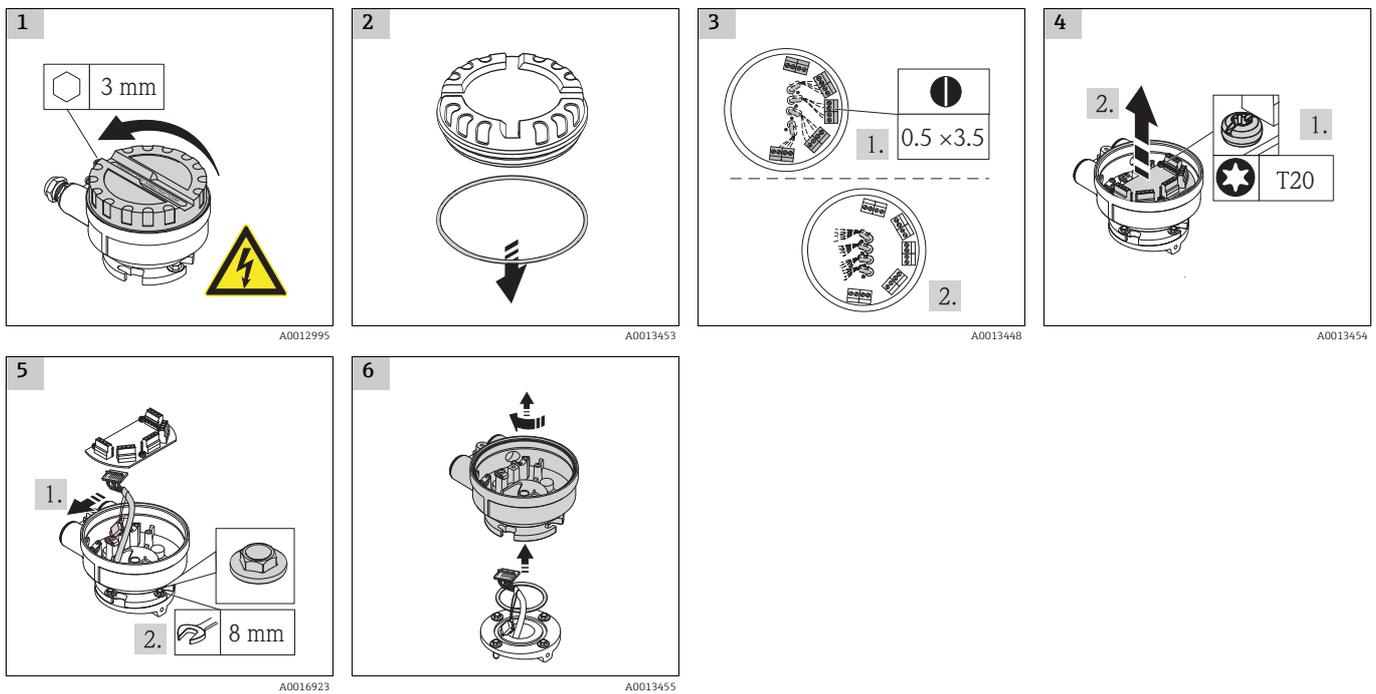
**B Replacing gasket, O-ring cover, connection board Prowirl 72, 73, Prosonic Flow 92 F wall mounting**



### C Replacing O-Ring cover, connection board Prowirl 72, 73 remote version

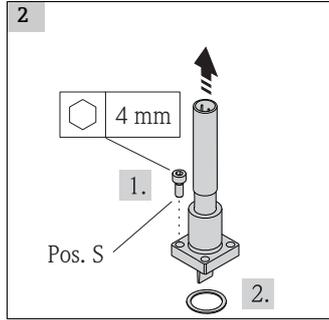
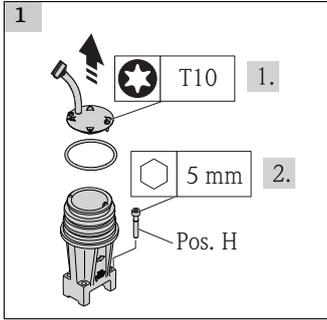


### D Replacing O-Ring cover, connection board, gasket Prosonic Flow 92F remote version

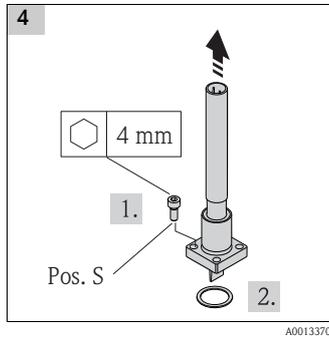
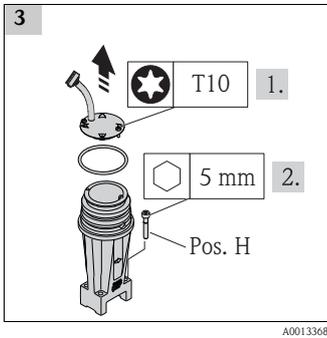


## E Replacing DSC-sensor Prowirl 72, 73

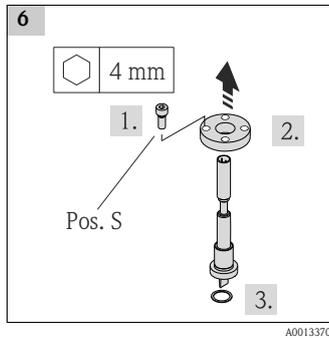
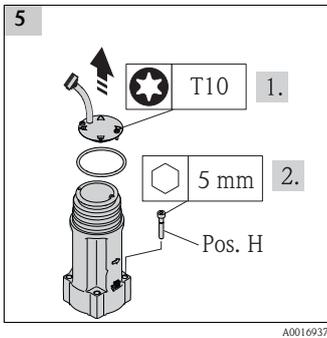
### 1. Replacing DSC-sensor Standard Prowirl 72, 73, gasket



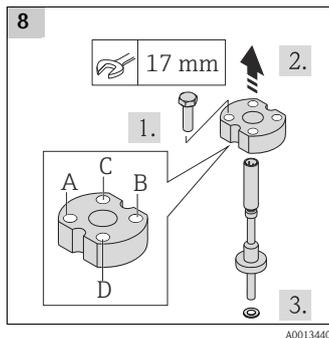
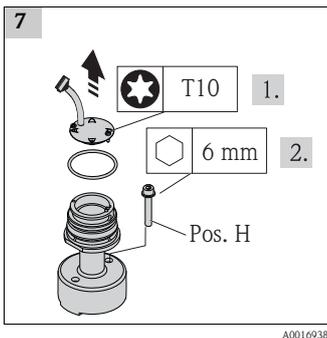
### 2. Replacing DSC-sensor high-/low temperature Prowirl 72, 73, gasket



### 3. Replacing DSC-sensor high pressure Prowirl 72, 73, gasket

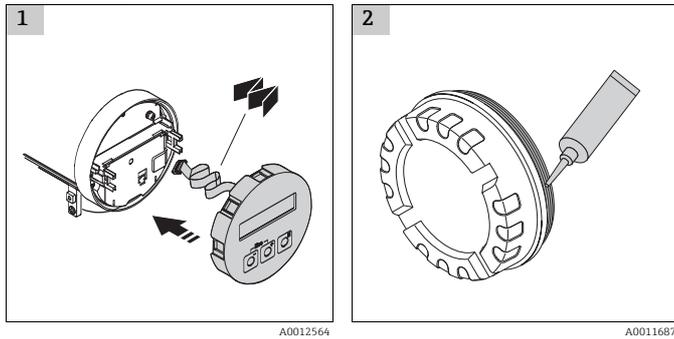


### 4. Replacing DSC-sensor max. pressure Prowirl 72, 73, gasket



## F Re-assembly Prowirl 72, 72, Prosonic Flow 92

When assembling, note temperature specifications and torques in the table below!  
 Re-assembly is carried out in reverse order, unless otherwise instructed. The following must be noted:



## G Recommended torques for Prowirl 72, 73

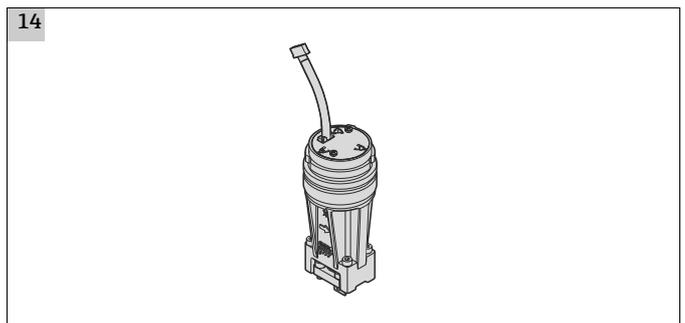
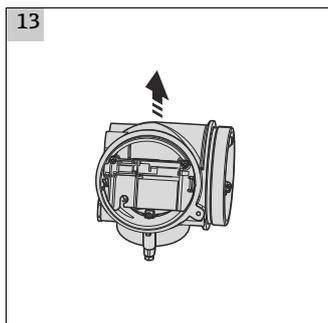
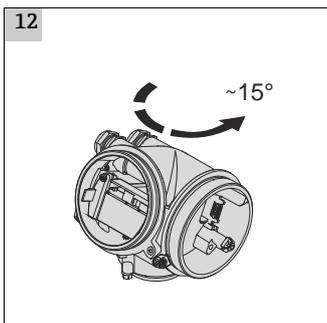
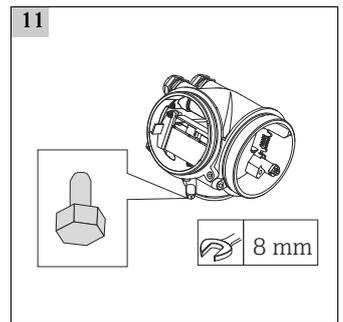
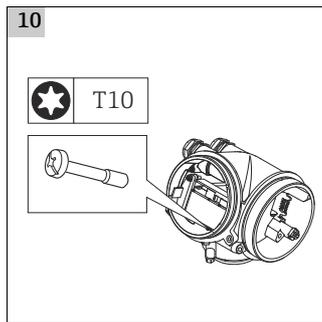
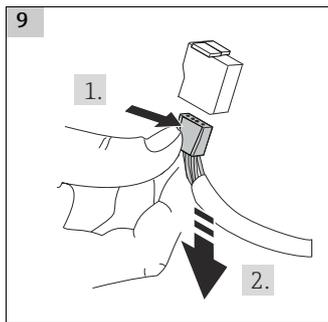
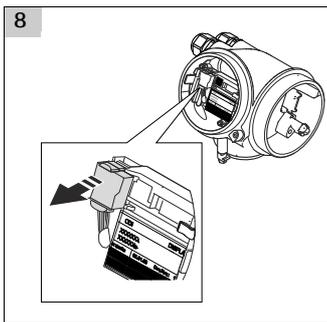
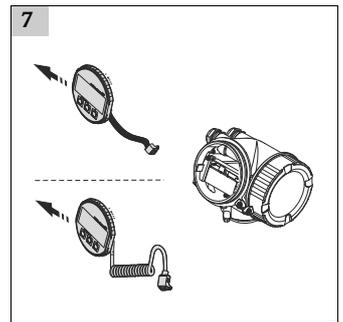
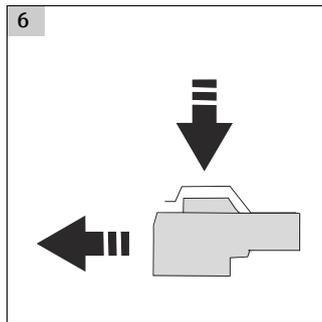
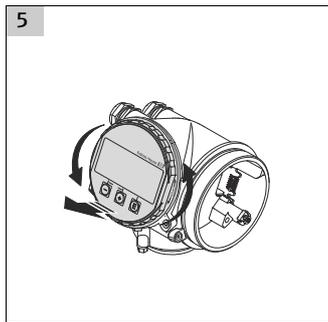
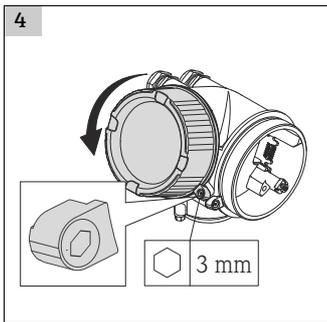
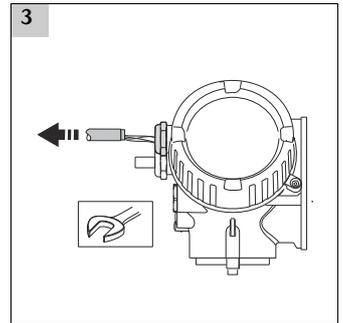
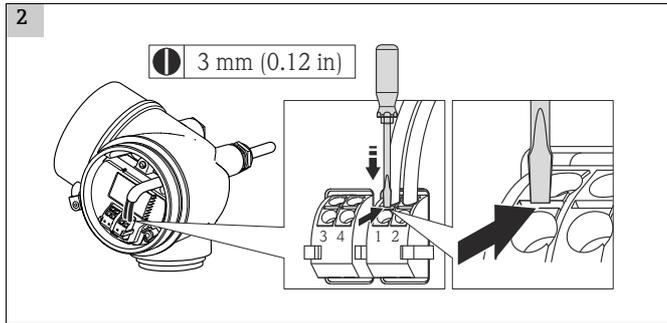
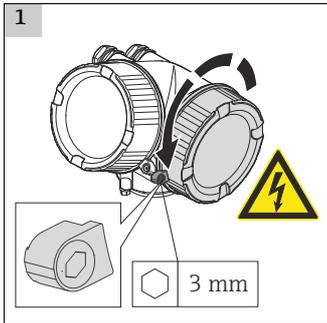
position H = screws housing support  
 position S = screws sensor

Temperature [°C (°F)]	7***_**0*****		7***_**1***** 7***_**3***** 7***_**4*****		7***_**2*****			7***_**6*****			
	see chapter E 1.	see chapter E 1.	see chapter E 2.	see chapter E 2.	see chapter E 3.	see chapter E 3.		see chapter E 4.	see chapter E 4.		
	Pos. H	Pos. S	Pos. H	Pos. S	Pos. H	Pos. S		Pos. H	Pos. S		
	Steps; tighten in a diagonally opposite sequence										
	1.		1.	1.	1.	2.	1.	1.	2.	3.	
								A, B, A, B, D, C	B, A, C, D	A, B, C, D	
Torques [Nm (lbft)]											
-200 (-328)	not permitted		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	not permitted	not permitted		
-50 (-58)	not permitted		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	14 (10.3)	10 (7.4)	20 (14.8)	26 (19.2)
-40 (-40)	5.8 (4.3)		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	14 (10.3)	10 (7.4)	20 (14.8)	26 (19.2)
+20 (+68)	5.8 (4.3)		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	14 (10.3)	10 (7.4)	20 (14.8)	26 (19.2)
+100 (+212)	4.9 (3.6)		4.9 (3.6)		5.8 (4.3)	8.5 (6.3)	12.7 (9.4)	11.8 (8.7)	8.5 (6.3)	17 (12.5)	22 (16.2)
+200 (+392)	4.6 (3.4)		4.6 (3.4)		5.8 (4.3)	7.9 (5.8)	11.9 (8.8)	11.1 (8.2)	7.9 (5.8)	15.8 (11.7)	20.6 (15.2)
+260 (+500)	4.5 (3.3)		4.5 (3.3)		5.8 (4.3)	7.9 (5.7)	11.9 (8.6)	10.9 (8.0)	7.8 (5.7)	15.6 (11.5)	20.2 (14.9)
+300 (+572)	not permitted		4.4 (3.2)		5.8 (4.3)	7.9 (5.6)	11.6 (8.4)	10.6 (7.8)	7.6 (5.6)	15.2 (11.2)	19.7 (14.5)
+400 (+752)	not permitted		4.1 (3.0)		5.8 (4.3)	7.0 (5.2)	10.4 (7.7)	10.1 (7.5)	7.0 (5.2)	14 (10.3)	18.2 (13.4)

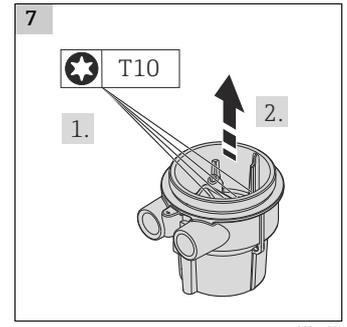
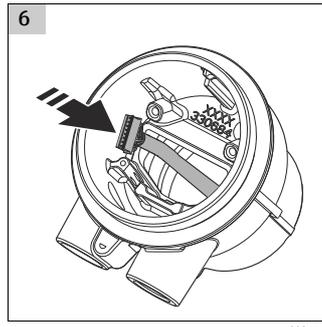
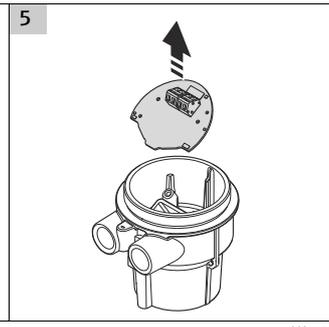
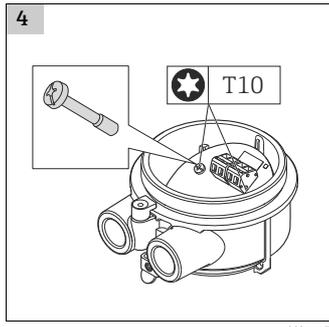
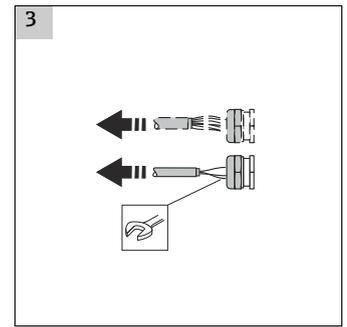
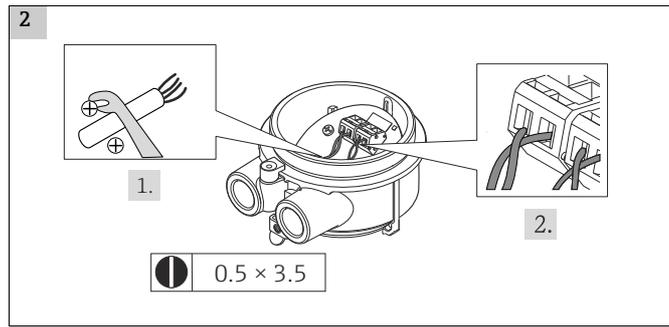
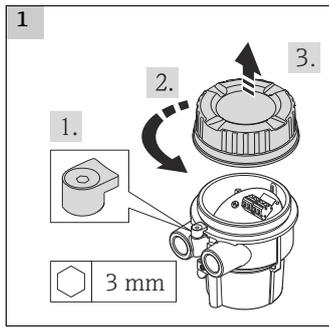
Apply one drop of grease to each screw. The grease used must be suited to the application temperature range.  
 The high-temperature paste HTP (50048898) is recommended.

## A Removing the Transmitter Prowirl 200 compact version

Store S-DAT (see graphic 8 + 9) in a save place and replace in spare transmitter (chapter E, graphic 5 + 6)!

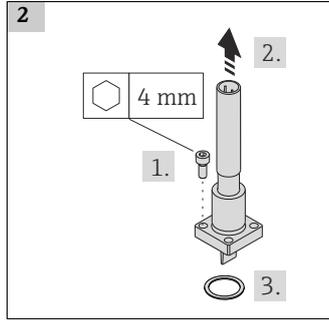
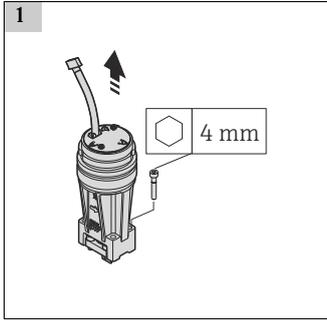


## B Removing connection housing Prowirl 200 remote version from the housing post

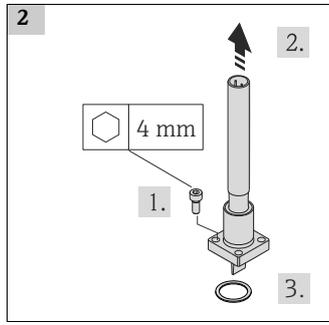
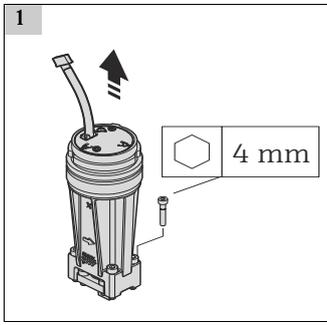


## C Re-assembly DSC-sensor Prowirl 200

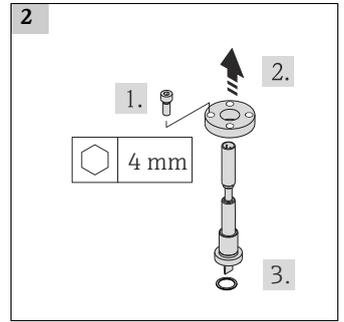
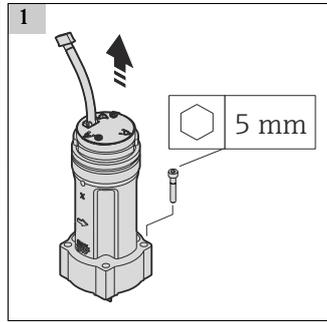
### 1. Removing DSC-Sensor in Prowirl D, F, R (Volume flow basic)



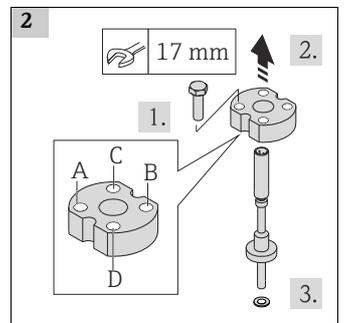
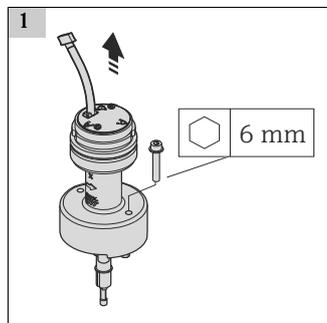
### 2. Removing DSC-Sensor in Prowirl D, F, R (Volume flow High -/low temp. or Mass flow (integrated Temperature measurement))



### 3. Removing DSC-sensor in Prowirl O (Volume flow Alloy 718 or Mass flow Alloy 718)



### 4. Removing DSC-sensor in Prowirl O (Volume flow Titanium)

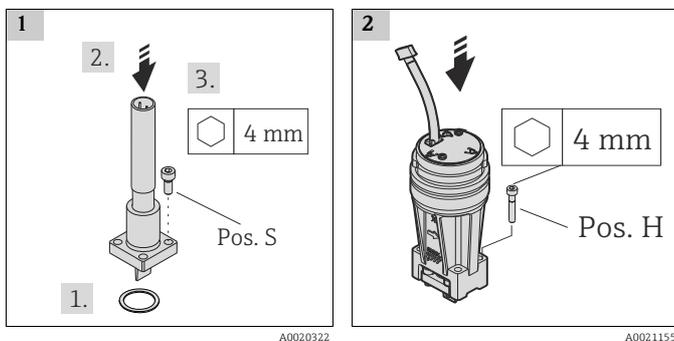


## D Assembly DSC-sensor Prowirl 200

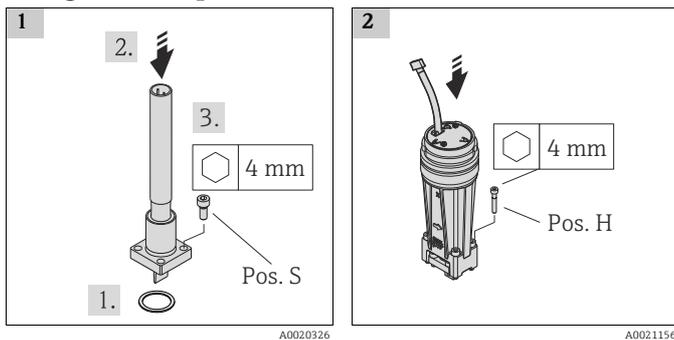
**⚠ DANGER**

To tighten the screws of the housing support (H) and the sensor (S) see the table on page 15!

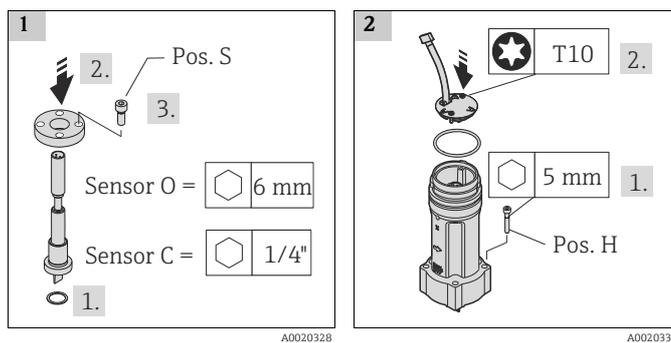
### 1. Assembly DSC-sensor in Prowirl D, F, R (Volume flow basic)



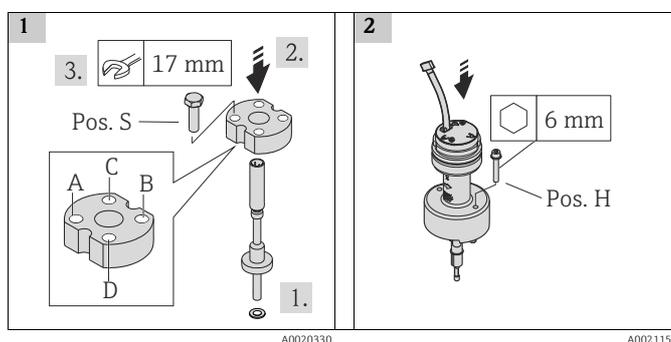
### 2. Assembly DSC-sensor in Prowirl D, R, F (Volume flow / High -/low temp. or Mass flow (integrated temperature measurement))



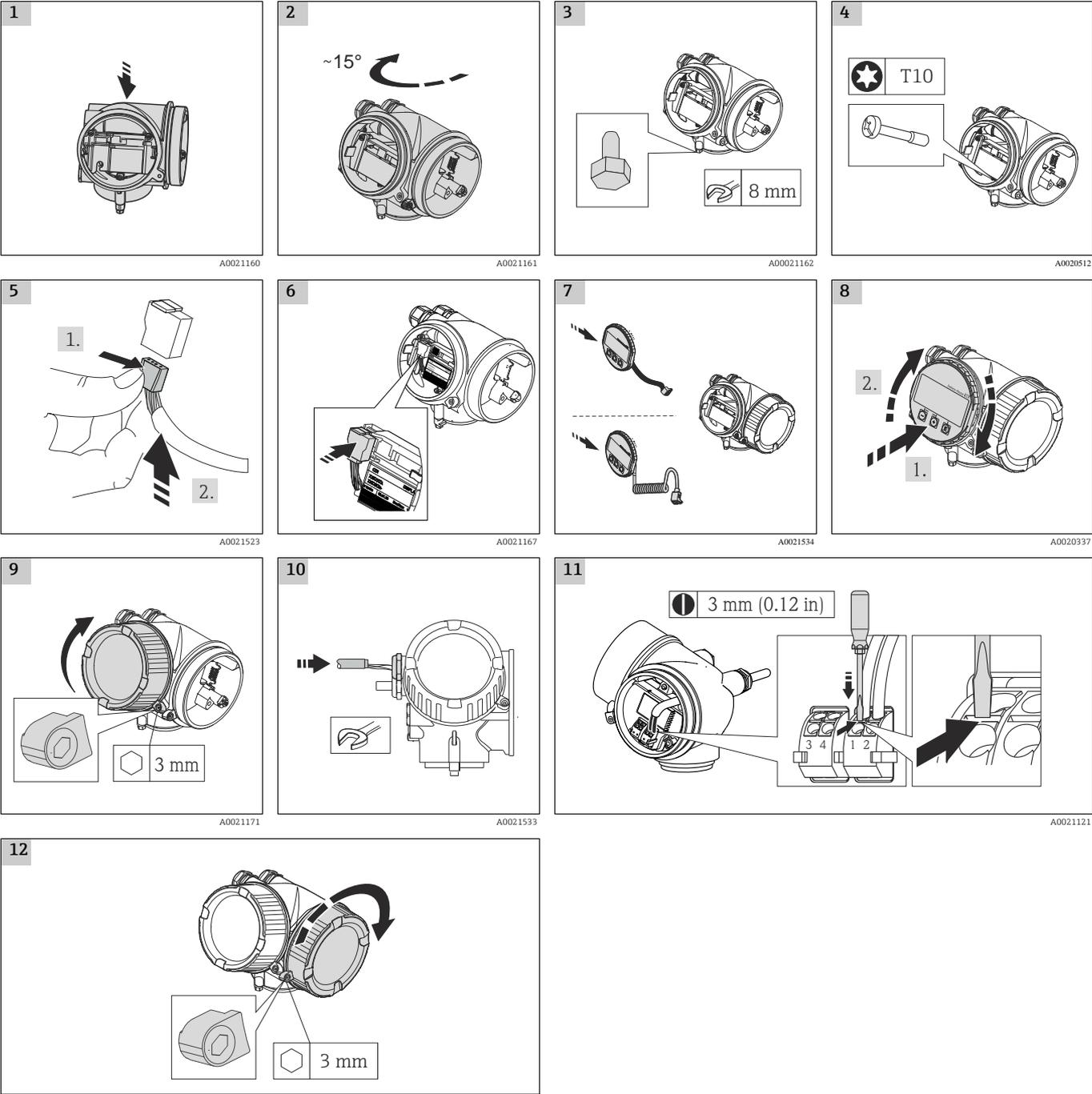
### 3. Assembly DSC-sensor in Prowirl O, C (Volume flow Alloy 718 or Mass flow Alloy 718)



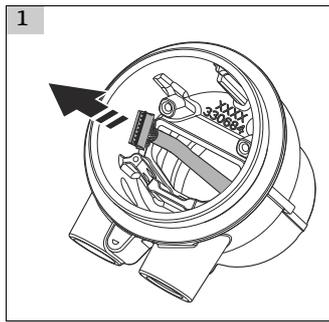
### 4. Assembly DSC-sensor in Prowirl O (Volume flow Titanium)



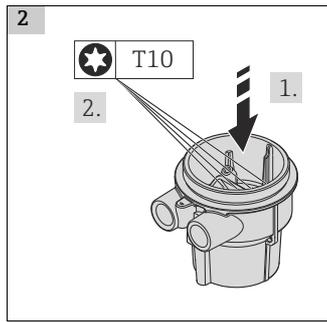
### E Mounting the transmitter Prowirl 200 compact version, replacing the S-DAT



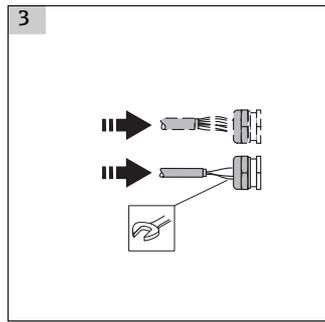
## G Mounting the connection housing Prowirl 200 remote version



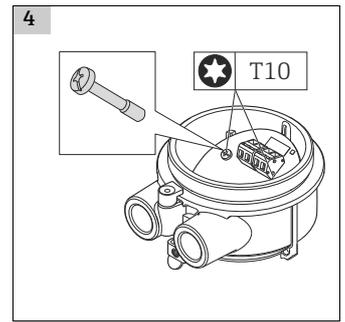
A0021175



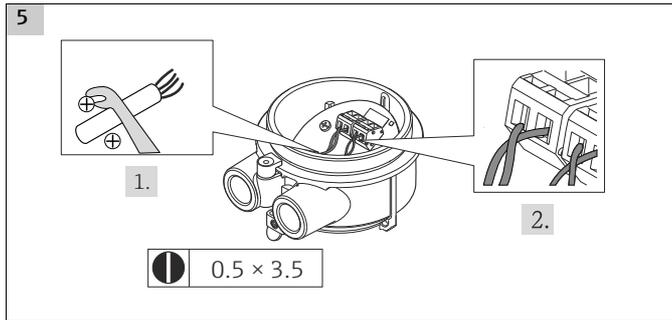
A0021176



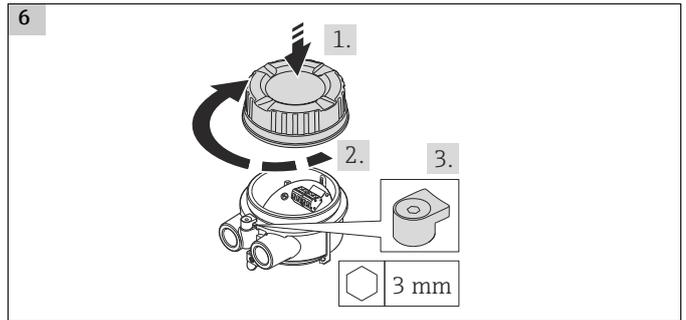
A0018147



A0021147



A0021308



A0021309

## H Recommended torques for Prowirl 200

Temperature [°C (°F)]	DSC-sensor D, R, F (volume flow basic) und housing post		DSC-sensor D, R, F (high/low temperature and housing post)		DSC-sensor O, C (volume flow, Alloy 718) and housing post			DSC-sensor O (titanium) and housing post			
	see chapter D 1.	see chapter D 1.	see chapter D 2.	see chapter D 2.	see chapter D 3.	see chapter D 3.	see chapter D 4.	see chapter D 4.			
	Pos. H	Pos. S	Pos. H	Pos. S	Pos. H	Pos. S	Pos. H	Pos. S			
	Steps; tighten in a diagonally opposite sequence						Steps and bolting sequence				
	1.		1.	1.	1.	2.	1.	1.	2.	3.	
								A, B, A, B, D, C	B, A, C, D	A, B, C, D	
Torques [Nm (lbft)]											
-200 (-328)	not permitted		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	not permitted	not permitted		
-50 (-58)	not permitted		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	14 (10.3)	10 (7.4)	20 (14.8)	26 (19.2)
-40 (-40)	5.8 (4.3)		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	14 (10.3)	10 (7.4)	20 (14.8)	26 (19.2)
+20 (+68)	5.8 (4.3)		5.8 (4.3)		5.8 (4.3)	10.0 (7.4)	15 (11)	14 (10.3)	10 (7.4)	20 (14.8)	26 (19.2)
+100 (+212)	4.9 (3.6)		4.9 (3.6)		5.8 (4.3)	8.5 (6.3)	12.7 (9.4)	11.8 (8.7)	8.5 (6.3)	17 (12.5)	22 (16.2)
+200 (+392)	4.6 (3.4)		4.6 (3.4)		5.8 (4.3)	7.9 (5.8)	11.9 (8.8)	11.1 (8.2)	7.9 (5.8)	15.8 (11.7)	20.6 (15.2)
+260 (+500)	4.5 (3.3)		4.5 (3.3)		5.8 (4.3)	7.9 (5.7)	11.9 (8.6)	10.9 (8.0)	7.8 (5.7)	15.6 (11.5)	20.2 (14.9)
+300 (+572)	not permitted		4.4 (3.2)		5.8 (4.3)	7.9 (5.6)	11.6 (8.4)	10.6 (7.8)	7.6 (5.6)	15.2 (11.2)	19.7 (14.5)
+400 (+752)	not permitted		4.1 (3.0)		5.8 (4.3)	7.0 (5.2)	10.4 (7.7)	10.1 (7.5)	7.0 (5.2)	14 (10.3)	18.2 (13.4)

Apply one drop of grease to each screw. The grease used must be suited to the application temperature range.  
The high-temperature paste HTP (50048898) is recommended.

position H = screws housing support

position S = screws sensor

