FLOWTRONIC 5000

Assembly instructions spare parts

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FLOWTRONIC 5000 spare parts kit
Order No.: 25 1818 99 29 10

The spare parts kit consists of:

Quantity	Designation
1	Impeller
1	Pump housing with stationary seal ring unit
1	Mechanical seal (with protective covering and date of manufacture)
1	Nut
1	O-ring
4	Screws
4	Spring lock washers
1	Washer
1	Spray guard
1	Oil bottle

Important!
The FLOWTRONIC 5000 spare parts kit contains a new mechanical steel which requires particular care to install. The mechanical seal may only be replaced together with the replacement of the complete seal kit.

Please note!

Before using the FLOWTRONIC 5000 spare parts kit, check to ensure the maximum shelf life of the mechanical seal (printout on the protective covering + 4 years!) has not been exceeded.

Dismantling the pump (Figure 1)

1. Remove the screws (1) on the pump cover (2).
2. Remove the pump cover (2) and check for damage.
3. Undo the nut (3) while holding on to the impeller (4), unscrew from the motor shaft and dispose of the nut.
4. Pull the impeller (4) off the motor shaft and dispose of them.
5. Undo and dispose of the screws (7) with spring lock washers (8) on the pump housing (9).
6. Pull the pump housing (9) with mechanical seal (5) and stationary seal ring (12) and O-ring (6) from the motor shaft and dispose of them.
7. Remove the washer (10) and if applicable spray guard (11) off the motor shaft and dispose of them.
8. Check motor for smooth and easy movement and examine for damage, unbalance and noise generation.

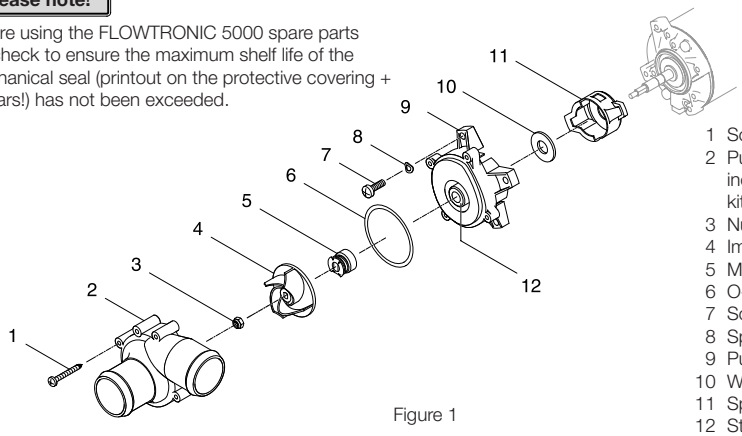

Figure 1

1 Screw (4)
2 Pump cover (not included in spare parts kit)
3 Nut
4 Impeller
5 Mechanical seal
6 O-ring
7 Screw (4)
8 Spring lock washer (4)
9 Pump housing
10 Washer
11 Spray guard
12 Stationary seal ring

Assembling the pump (Figure 2)

Important!

Do not damage the surface of the motor shaft. If using a liquid cleaning agent in the following step, ensure it does not penetrate the motor bearings.

1. Remove dirt and deposits from the motor shaft.

   Please note!

   Check the screws on the end plate for secure fit and if tighten necessary (2 Nm torque).

2. Push the spray guard (11, Fig. 2) and washer (10) onto the motor shaft up to the limit stop.

Important!

The motor shaft must be completely greased with assembly oil, otherwise proper assembly (self-adjustment) of the mechanical seal is not ensured and results in leaks.

3. Apply an anti-friction film of assemby oil to the whole of the motor shaft, in a horizontal position as shown in Fig. 2. To do this, pierce the tip of the oil bottle or cut it open and carefully apply the assembly oil on the intended parts of the motor shaft.

Important!

Do not damage or remove the anti-friction film on the sliding surface of the stationary seal ring unit. Take care to avoid contamination with foreign bodies.

4. Remove the pump housing (9) with pressed in stationary seal ring unit (12) from the separate packaging.
5. Push the pump housing (9) onto the motor shaft up to the splash guard (11). Align the mounting holes with the threaded holes in the motor flange.
6. Attach the pump housing with the screws (7) and spring lock washers (8) (4 Nm torque).
7. Remove the mechanical seal (5) from the protective tube (13).
8. Align the mechanical seal (5) with the motor shaft (flat surfaces) and push on up to the limit stop.
9. Push the impeller (4) onto the motor shaft. The mechanical seal expands.
10. Screw on the nut (3), at the same time fasten the impeller (4) and tighten the nut (1.5 Nm torque).
11. Place the O-ring (6), unskewed, on the pump housing (9) over the edge.
12. Place the pump cover (2) on the pump housing (9) and fasten with screws (1) (2 Nm torque).
13. Install the circulating pump in the vehicle
14. Perform functional and leak test.

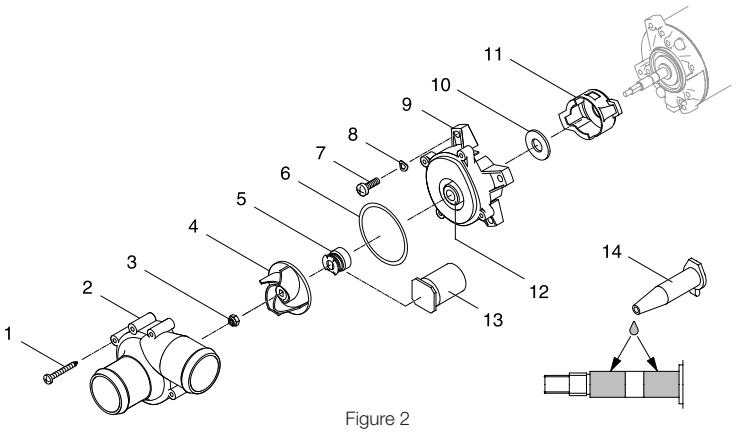

Figure 2

1 Screw (4)
2 Pump cover (not included in spare parts kit)
3 Nut
4 Impeller
5 Mechanical seal
6 O-ring
7 Screw (4)
8 Spring lock washer (4)
9 Pump housing
10 Washer
11 Spray guard
12 Pressed in stationary seal ring unit
13 Protective tube for mechanical seal with date of manufacture
14 Oil bottle