

GE Healthcare

Upgrade kit P-901, P-903

Instruction

Kit code number

18-1128-45 (P-901)

18-1128-46 (P-903)

IMPORTANT: Read through this instruction in whole before commencing with the installation.

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General

Upgrade kit P-901 (and Upgrade kit P-903) contain new pump heads, which facilitate purging of the pump. The kits also include modified parts for the outlet manifold, providing better control of the flow in low ranges.

Unpacking

Unpack Upgrade kit P-901 (or Upgrade kit P-903), and check the items against the supplied packing list. Inspect the items for obvious damage, which may have occurred during transportation.



Required tools and documents

3 mm Allen key

Removing connectors and capillaries

WARNING: Ensure that the mains supply is disconnected before starting the removal.

1. Remove the inlet manifolds from the pump heads.
2. Remove all capillaries and connectors from the pump heads and the outlet manifold.
3. Remove the piston rinsing system.

The following items will be reused:

- Piston seal rinsing system 18-1113-32
- Inlet manifold, 100 ml 18-1112-25 or
Inlet manifold, 10 ml 18-1120-80
- Pump head capillaries 100 ml 18-1117-52 or
Pump head capillaries 10 ml 18-1120-81

Replacing old pump heads

1. Remove the pump heads, including pistons and return springs. Use the 3 mm Allen key and save the attachment screws. The screws will be re-used.
2. Assemble the new pump heads including new pistons and return springs.
3. Mount the new pump heads. Observe the UP marking. Fit in position and fasten, using the old attachment screws.

Replacing old outlet manifold

WARNING: When using hazardous chemicals, make sure that the entire system has been flushed thoroughly with bacteriostatic solution, e.g. NaOH, and distilled water before service and maintenance.

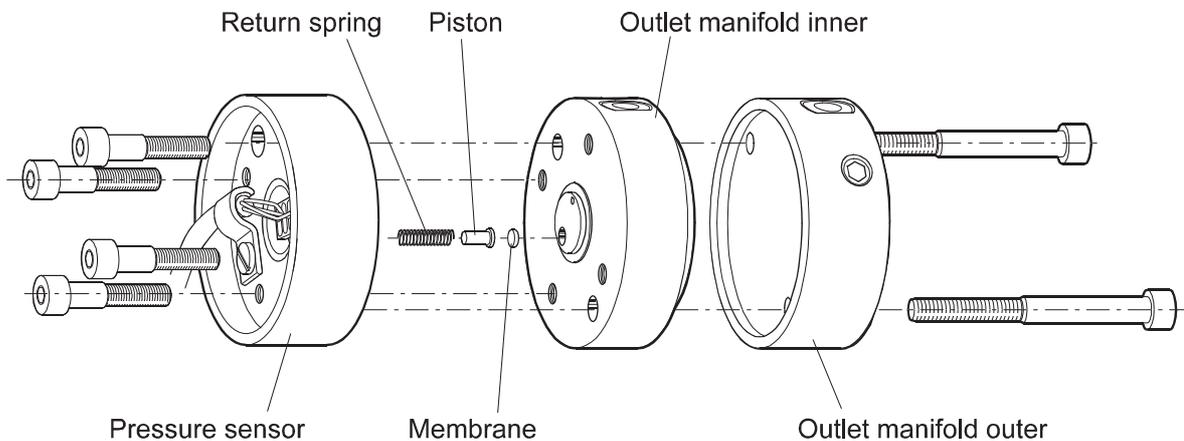
1. Use the 3 mm Allen key to unscrew the outlet manifold. Save the two attachment screws, they will be re-used.

Note: *The pressure sensor will also come loose.*

2. Pull out the pressure sensor/outlet manifold inner assembly a few centimetres. If required, loosen the cable tie inside the pump.

Note: *Do not remove the cable from the pressure sensor.*

3. Remove the inner outlet manifold from the pressure sensor. Use the 3 mm Allen key to unscrew the four attachment screws.
4. Place the membrane in the larger hole in the new inner outlet manifold. Check that the membrane lies flat on the bottom.



5. Place the piston, with the wide end facing the membrane, in the hole.
6. Place the return spring on the spring in the hole.
7. Fasten the outlet manifold outer and the pressure sensor using the four new attachment screws. Gently tighten the screws crosswise. Make sure that the screws are tightened properly.
8. Mount the upgraded outlet manifold, using the two old attachment screws.

Installing connectors and capillaries

1. Connect the piston rinsing system capillaries.
2. Mount the pump head capillaries. Pump module A should be connected to the inner outlet manifold. Pump module B should be connected to the outlet manifold outer.
3. Mount the inlet manifolds on the pump modules.



This symbol indicates that the waste of electrical and electronic equipment must not be disposed as unsorted municipal waste and must be collected separately. Please contact an authorized representative of the manufacturer for information concerning the decommissioning of your equipment.

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