

7. Limited Warranty

Products manufactured by GRUNDFOS PUMPS CORPORATION (GRUNDFOS) are warranted to the original user only to be free of defects in material and workmanship for a period of 18 months from date of installation, but not more than 24 months from date of manufacture. GRUNDFOS' liability under this warranty shall be limited to repairing or replacing at GRUNDFOS' option, without charge, F.O.B. GRUNDFOS' factory or authorized service station, any product of GRUNDFOS manufacture. GRUNDFOS will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by GRUNDFOS are subject to the warranty provided by the manufacturer of said products and not by GRUNDFOS' warranty. GRUNDFOS will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with GRUNDFOS' printed installation and operation instructions.

To obtain service under this warranty, the defective product must be returned to the distributor or dealer of GRUNDFOS products from which it was purchased together with proof of purchase and installation date, failure date, and supporting installation data. Unless otherwise provided, the distributor or dealer will contact the GRUNDFOS factory or authorized service station for instructions. Any defective product to be returned to the factory or service station must be sent freight prepaid; documentation supporting the warranty claim and/or a Return Authorization must be included if so instructed.

GRUNDFOS WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES, OR EXPENSES ARISING FROM INSTALLATION, USE, OR ANY OTHER CAUSES. THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THOSE WARRANTIES DESCRIBED OR REFERRED TO ABOVE.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages and some jurisdictions do not allow limitations on how long implied warranties may last. Therefore, the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction.

CARTRIDGE REPLACEMENT INSTALLATION INSTRUCTIONS

UP SERIES CIRCULATORS



GRUNDFOS®



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1. PRE-INSTALLATION CHECK LIST

Before beginning installation procedures, the following checks should be made. They are important for successful installation of the replacement cartridge.

Be sure that the proper kit is used, refer to Table 1.

If the circulator to be repaired has suffered water damage to the stator it can not be repaired and must be replaced.

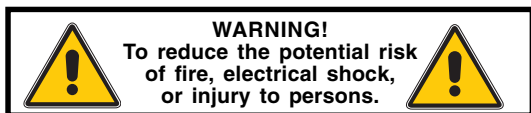
If the terminal strip or capacitor are damaged or have failed, they must be replaced with the proper replacement kit or entire pump.

Table 1.

Cartridge Kit

UP15	UP26
506171	526061
UP15-Brute II 115/230v	UP26-64 115/230v
	UP25-64 115/230v
506172	UP43-75 115/230v
UP15-18SU/SF 115v	UP50-75 115/230v
506173	526062
UPS15-42F 115v	UP26-96 115/230v
UP15-42B5/B7 115v	UP26-99 115/230v
UP15-42BUC5/BUC7 115v	
UP15-42SU/SF 115v	
506174	526063
UP15-18B5/B7 115/230v	UP26-116 230v
UP15-18BUC5/BUC7 115v	
UP15-20SPA 115/230v	
UP15-18SU/SF 230v	
UP15-15SPA 115/230v	
506175	
UM15-10 115/230v	
UPS15-42F 230v	
UP15-42B5/B7 230v	
U15-42SU/SF 230v	
506176	
UP15-10 115/230v	

2. SHOCK HAZARD



Switch off the electrical power supply to the pump. WARNING: Never make any connections in the pump terminal box unless the electrical supply has been switched off.

3. PUMP ISOLATION

Isolate the pump from the water pipe by closing valves immediately upstream and downstream of the pump, or by draining the immediate piping system.

CAUTION: The water in the pump may be scalding hot. A means to contain the water released while disassembling the pump should be provided to prevent water damage and staining. Ensure that water does not enter the terminal box.

4. PUMP DISASSEMBLY

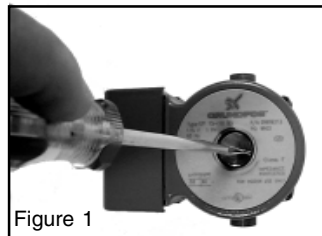


Figure 1

- Remove the four (4) Allen screws (4 or 5 mm wrench).
- Carefully separate the stator from the pump housing (volute).
- For all circulators except the BRUTE UP 15 - 42: Insert a large flat blade screw driver or suitable punch into the screw in the middle of the nameplate (see figure 1) and gently tap until the entire cartridge canister assembly, complete with rotor and impeller, is free to be removed. Do not attempt to pry out the cartridge at the stator / volute mating joint.

For the BRUTE UP 15 - 42 :

Remove the nameplate by gently prying off at the edges. Follow directions for item c. above.

- Remove gasket from inside stator.
- Inspect the exposed inside of the stator housing. If there are signs of corrosion or water damage then the pump cannot be repaired.

5. CARTRIDGE INSTALLATION

- Insert replacement gasket into stator housing.
- Insert the replacement cartridge into the stator housing. Check that the motor shaft turns freely. For the Brute UP 15 - 42 only, line up and snap the nameplate back into position.
- Replace the Allen screws and tighten diagonally and evenly (7 ft. - lb. torque).

6. RETURN SYSTEM TO NORMAL OPERATION

- Open isolating valves and / or fill piping system with water. **DO NOT START THE PUMP UNTIL THE SYSTEM HAS BEEN FILLED.**
- Restore power to the pump and ensure that it operates quietly.