

## 7. Limited Warranty

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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.

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# CARTRIDGE REPLACEMENT INSTALLATION INSTRUCTIONS

## UP SERIES CIRCULATORS



# GRUNDFOS



Leaders in Pump Technology



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L-UP-TL-019 | Rev. 11/99  
PRINTED IN USA

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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.

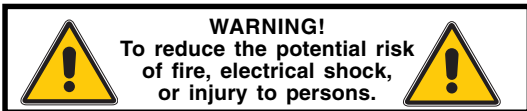
Be sure that the proper kit is used, refer to Table 1. If the circulator to be repaired has suffered water damage to the stator it can not be repaired and must be replaced. If the terminal strip or capacitor are damaged or have failed, they must be replaced with the proper replacement kit or entire pump.

**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



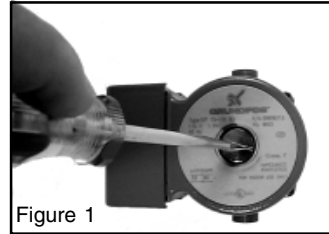
**Switch off the electrical power supply to the pump. WARNING: Never make any connections in the pump terminal box unless the electrical supply has been switched off.**

## 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



- 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.