

Instructions for Replacing Booster Pump Bearing Assemblies

S17673
REVISION B

(Pump shown is Series 100, replacement for other pumps is similar)

! WARNING: Before proceeding with any of these instructions, make certain that power is disconnected and locked out. Electrical power to the boiler and any related accessory must also be disconnected and locked out. Failure to follow these instructions could result in injury or death.

! CAUTION: Check surfaces for high temperatures, allow the pump/piping temperature to reach approximately 100 deg. F., before proceeding. Failure to follow these instructions could result in severe personal injury and/or property damage.

! CAUTION: Close the valves on the suction and discharge sides of the pump before proceeding. If no valves have been installed, it will be necessary to drain the system. If it becomes necessary to drain the system, close the city water supply or shutoff valve to the pressure reducing valve, allow the system to cool to approximately 100 deg. F., open the drain valve (take precautions against water damage) and leave the drain valve open until servicing is completed. Failure to follow these instructions could result in severe personal injury and/or property damage.

STEP NO. 1



The conduit box cover is removed as shown prior to removing the motor for service. The wire nuts are removed and the flexible conduit connector is then removed.

STEP NO. 2



The coupler is loosened by means of backing off the set screw with an Allen Wrench on the pump shaft coupler half. The T-Handle Allen Wrench shown is provided with the B&G Service Kit, but a conventional L-Handle will do the job.

STEP NO. 3



Use a box wrench to loosen the four motor cap screws and the motor is free from the bearing assembly.

STEP NO. 4



With the cap screws removed, the motor is backed off and if the set screw is backed off the pump shaft sufficiently, the coupler should slide free of the pump shaft. A screwdriver may be used to pry it loose if tight.

STEP NO. 5



Loosen the four body cap screws. Shift the bearing assembly position slightly to allow for any pressurized water to escape. Remove the four body cap screws.

STEP NO. 6



Pull the Bearing Assembly from the Pump Body.

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STEP NO. 7



Remove the Impeller Nut and Impeller. Important: Note the following before installing impeller on new bearing assembly. If impeller is metal with flat back as illustrated in insert, the brass metal washer must be used atop the seal spring. If the impeller has a shroud on the back, DO NOT USE THE BRASS WASHER.

STEP NO. 9



Fit the Bearing Assembly into the Pump Body and tighten Cap Screws evenly. Do not over tighten.

STEP NO. 11

Oil Bearing Assembly in accordance with instructions on oil tube furnished with assembly.

STEP NO. 8



Replace the Body Gasket. The pump body should be cleaned of excess dirt and pieces of the old gasket.

STEP NO. 10



Connect the coupler to the Bearing Assembly Shaft and reposition motor.

STEP NO. 12

Close the system drain valve. Open the pump suction and discharge valves.



CAUTION: Pressurize the pump body slowly. Be aware that hot water leaks could occur. Check for leaks at all gasketed joints. Failure to follow these instructions could result in severe personal injury and/or property damage.

STEP NO. 13

Reconnect electrical power to the pump and check for proper operation.

PERIODIC INSPECTION

Bell & Gossett Booster Products are designed to provide years of trouble free service. It is recommended that periodic inspections be made to check for potential problems with the unit. If any leakage or evidence of leakage is present repair or replace the unit.

For further information, contact ITT Bell & Gossett, 8200 N. Austin Avenue, Morton Grove, IL 60053, Phone (847) 966-3700 – Facsimile (847) 966-9052.

ITT Bell & Gossett
Morton Grove, IL, U.S.A.