

**Wilfley
Centrifugal Pumps
AF Assembly Guide**

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Wilfley Centrifugal Pumps

Model AF

Frame 1, Metal



1. Install the Thrust Drive Sleeve Spacer, Bushings and Plug into the Thrust Drive Sleeve. (Frame 0 has no spacer).



2. Fit all Bearing Caps with Felt Rings that have been coated with a light oil. (Frame 5 uses Oil Seats)



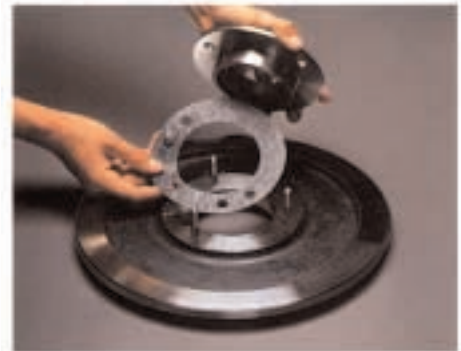
3. Place Rear Bearing Cap-inner onto the Thrust Drive Sleeve, install bearing and lock into place.



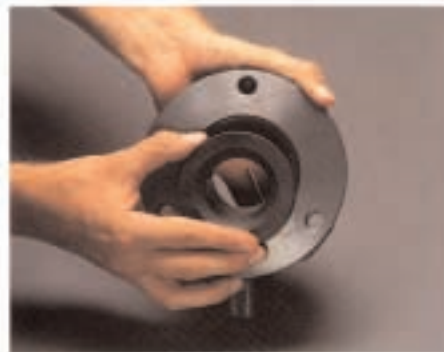
4. Install the bearing on the Shaft and lock into place.



5. Attach Governor Weights to the Governor Sleeve.



6. Place Case Plate Labyrinth Ring and gasket on the Case Plate.



7. Press the Stationary Seal Ring into the Stationary Seal Ring Housing.



8. Place the Stationary Seal Ring Housing and gasket onto the Case Plate Labyrinth Ring and attach nuts and washers. Leave the nut fingers tight.



9. Slip the Rotary Seal Ring and gasket onto the hub of the Impeller.



10. Fit the Case Wear Ring (gasket required on Frame 3, 4 and 5) in the Case.



11. Slide the Thrust Drive Sleeve Assembly into the Frame and bolt on the Bearing Caps.



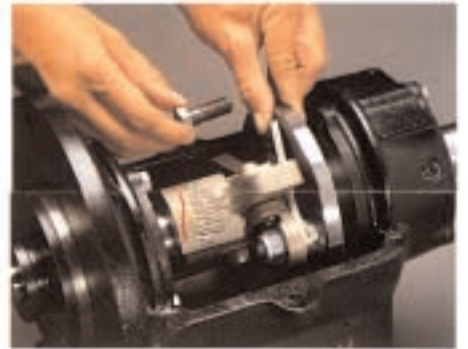
12. Install the Shaft Assembly through the Frame, Front Bearing Cap Inner, Governor Sleeve Assembly and the Thrust Drive Sleeve.



13. Bolt the Front Bearing Caps together.



14. Bolt the Governor Sleeve Assembly onto the Shaft.



15. Attach the Governor Springs to the Governor Sleeve and the Thrust Drive Sleeve. The spring bend should correspond with the spring direction diagram on the Governor Weight.



16. Tighten all Governor Spring Cap Screws then back off $\frac{1}{4}$ turn to allow for proper spring movement.



17. Bolt the Pump Bracket to the Frame.



18. Slide the Shaft Sleeve and gasket onto the Shaft.



19. Fit the Case Plate Assembly, drain spout down, onto the Pump Bracket.



20. Coat threads of the shaft with a non-seizing material and screw on the Impeller.



21. Fit the Case Plate Gasket onto the Case Plate.



22. Bolt the Case into place.



23. Pry the Governor Sleeve forward several times to check for smooth movement and to set the Stationary Seal Ring.



24. Tighten the Stationary Seal Ring Housing Stud Bolt Nuts. Alternate the nut tightening to ensure an even alignment of seals.



25. Bolt the Frame Cover to the Frame. Check to make sure the motor direction corresponds to the arrow on the case before starting the pump. Please do not run pump backwards.

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This pictorial guide is to be used only as a general reference in relation to the AF Operating Handbook. The photos in this guide relate to the frame 1, metal AF pumps. Parts may not be exactly the same for pumps of other sizes or materials.

Please refer to exceptions as noted in the AF Operating Handbook. Before working on your pump, please read all instructions and warnings carefully, and observe all safety precautions.