





Disassembly and reassembly of a Continental CL12 & CL12H Progressing Cavity Pump

1. Remove the reducer, #9 from the discharge end of the pump. Remove clamp bolts from stator housing support, #38, and pull off the top half of stator support from stator, #21. Place temporary support under suction housing, #2, using a block of wood. Remove the bottom half of the stator support, #38.
2. By using pipe wrench remove stator, #21, from stator adapter flange, #12. Pull stator, #21, off rotor, #22. **Alternate method:** remove bolts holding stator adapter flange, #12, to main body castings. Remove clamp bolts from body housing support, #38, pull top half of body housing support from pump body. Raise pump at suction to facilitate removal of stator, #21, with stator adapter flange, #12, attached. Pull stator, #21, off rotor, #22.
3. Remove two drive pin screws, 54, with allen wrench and remove shaft pin, #46, under drive pin screws, by pushing pin through collar, #49.
4. Slide collar, #49, from driveshaft, #26.
5. Remove two drive pin washers, #73, it is best to use new drive pin washers when re-assembling.
6. Pull rotor and connecting rod assembly out of driveshaft, #26.
7. To dis-assemble rotor and connecting rod, press rotor band, #50, off rotor, shaft pin, #46, out of the rotor, pull connecting rod, #25, out of rotor, remove connecting rod washers, #53, from connecting rod, #25. To re-assemble rotor and connecting rod, use new connecting rod washers, #53.
8. Remove six cap screws from bearing cover plate, #34, and remove cover plate. Remove grease fitting and plug from bearing housing at body support.
9. We recommend using a press to remove driveshaft, #26 and bearing assembly from bearing housing, #5. If press is not available insert a small rod into drive shaft, #26, through main body casting, #2 and #5, and drive bearing assembly, #31, and shaft assembly out of joined main body and bearing housing castings.
10. To remove roller bearing assembly, #31, from driveshaft, #26, remove the allen head screw and brass slug from bearing lock nut, #58, and remove lock nut. Use a piece of tubing approximately 24" long with an inside diameter of 4-13/16" + .015 which is to be placed down over the shaft end against roller bearing cone. With tube in position bearings can be removed from the shaft. An arbor press is recommended for the removal of the roller bearing assembly and driveshaft.
11. Remove packing gland bolts and packing gland, #41.
12. Remove packing, #42, and note how the packing rings are staggered. When repacking, stagger the ends of packing. Remove lantern ring, #57, and packing washer insert, #65.
13. Press out the radial grease seal, #61, from the bearing housing and the thrust grease seal, #62, out of the bearing cover plate, #34.
14. To re-assemble, reverse the above procedure.

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