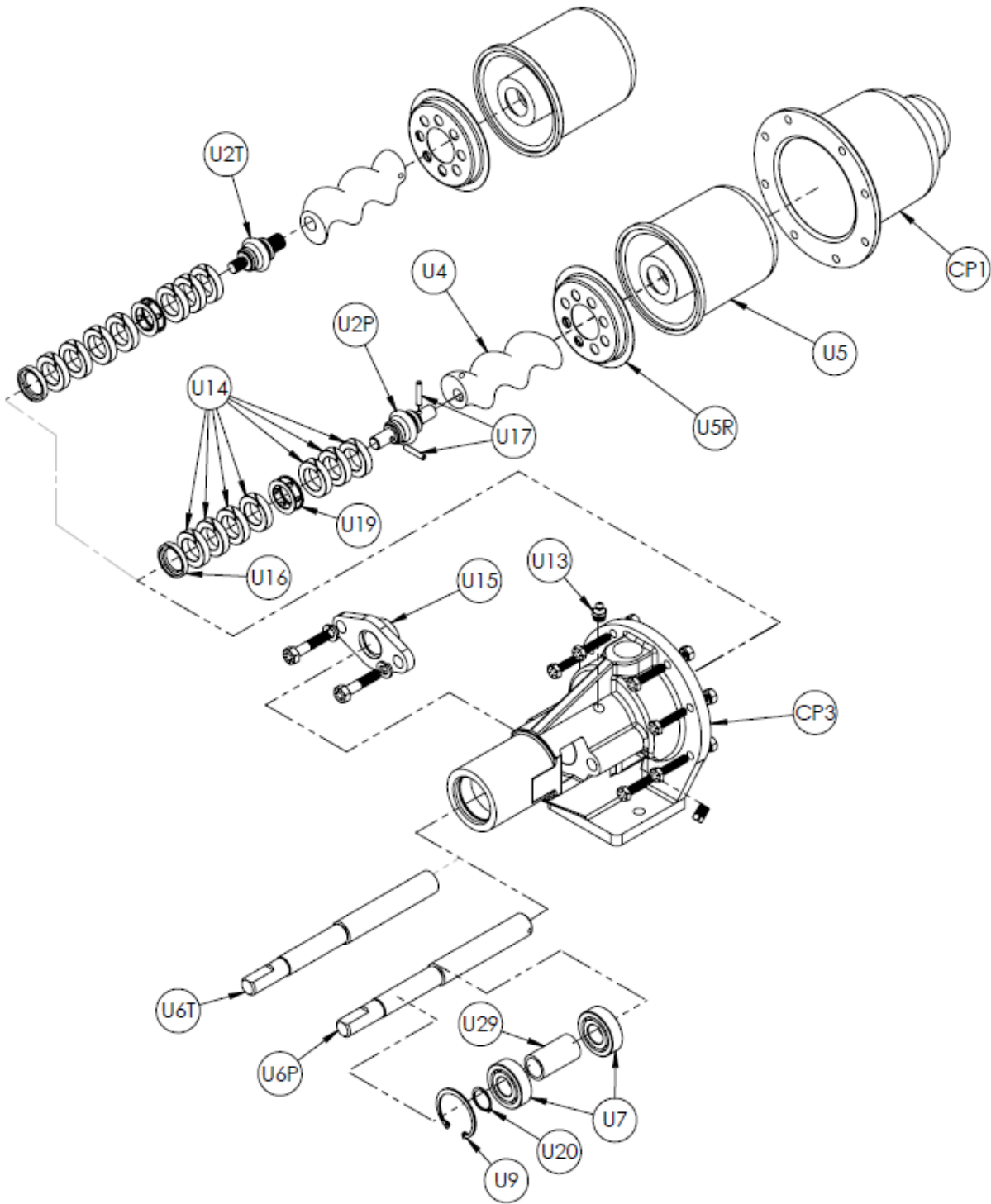


Disassembly and reassembly of a Continental CP Progressing Cavity Pump
with Packed Seal





Disassembly and reassembly of a Continental CP Progressing Cavity Pump with Packed Seal

1. Disconnect pipe or hose at suction and discharge ports.
2. Remove bolts which connect suction housing, #CP1, to discharge housing, #CP3. Remove suction housing and stator, #U5.
3. Remove the rotor, #U4, from the threaded flexible joint, #U2, by rotating counter clockwise or use 3/16" punch to remove the roll pins, #U17, from the pinned flexible joint, #U2, through the discharge port.
4. Remove the threaded flex joint, #U2, from driveshaft, #U6, by using a 3/16" allen wrench and turn counter-clockwise or use punch to remove the other roll pin, #U17, from the pinned flexible joint.
5. The packing, #U14, can be removed after driveshaft, #U6, by pressing out from the motor side of the discharge housing, #CP3. Remove gland bolts and slide gland, #U15, away from packing, #U14. Pull out packing and lantern ring, #U19, by using a packing removal tool.
6. The bearings, #U7, and driveshaft, #U6, assembly can be removed from the pump body, #CP3, after retaining ring, #U9, and shaft retaining ring, #U20, has been removed. To remove assembly, lightly tap the driveshaft at the threaded or pinned end with a soft blow hammer to protect the end of the driveshaft and press bearings off the driveshaft. When pressing on new bearings, #U7, reinstall bearing space, #U29 then secure in place with the shaft retaining ring, #U20. When replacing the bearings, always press on the inner race when assembling the driveshaft, and the outer race when pressing into the housing.
7. Install the packing: lubricate each ring of packing with grease. Stagger the ends of the packing, #U14, in the stuffing box of the discharge housing, #CP3, place the lantern ring, #U19, in the middle of the packing set, see exploded view drawing. Loosely install the packing gland, #U15, on the discharge housing using the gland bolts.
8. Press driveshaft assembly into discharge housing, #CP3, and secure with retaining ring, #U9.
9. Use an allen wrench to tighten flexible joint, and then screw rotor onto flexible joint or use pins. It is not necessary to tighten rotor with a wrench as it is self-tightening when the pump starts.
10. Moisten inside of stator with water and slip it over rotor, place stator lip inside the housing groove. Mount suction housing to discharge housing and fasten with body screws. Refill pump with liquid to be handled, connect pipe or hose to suction and discharge ports and pump is ready to run.