

K2/K2P MAINTENANCE INSTRUCTIONS

NOTE: API couplers should always be used in conjunction with primary shutoff system such as a meter with preset valve. A relief valve must be provided for the trapped product between the primary shutoff and the API coupler.

IMPORTANT: Before you begin, drain the line of all product. This can be done by depressing the 5 interlock lugs on the coupler (8) and turning the lever (4). To facilitate this process, an adapter ring (part # 566124) can be used to easily depress the lugs.

TO CHANGE THE NOSEPIECE SEALS:

1. Remove coupler from loading arm flange.* (Please note: the nose seal (16) can be replaced without removing the coupler from the loading arm).
2. Retract the lever returning the poppet to it's closed position. Use a flat head screwdriver to remove the spiral retaining ring (item 2) from the face of the coupler.
3. Depress all 5 lugs (8) on the face of the coupler. Once the sleeve (5) slides forward, turn lever forward (4). This will open the coupler without it being attached to an adapter and allow access to the poppet linkage assembly
4. With no tension on the poppet assembly, remove the hitch pin (26) and the clevis pin (25) closest to the TTMA flanged end of the coupler. Needle nose pliers should be used to remove the hitch pin. This will allow the removal of the wave spring (21), the nosepiece (3), the poppet (1), the links (10), another clevis pin, and a hitch pin.
5. Slide the nosepiece and the wave spring over the links in order to gain access to all of the seals. Without damaging seal seats, remove the seals from the nosepiece. A pick may be necessary on the poppet o-ring (22) and on the quad ring (13). The two other seals are the nose seal (16) and the axial seal (12).
6. Using a solvent, clean the bore and the nosepiece seal grooves. All grit should be cleaned away.
7. Lubricate new seals with Parker Super Lube (or equivalent) and install into the nosepiece. **No lubricant should be used on the nose seal (16).**
8. If shaft seal (15) needs replacing, go to steps 14-20 before reattaching the poppet linkage assembly.
9. Reassemble spring, nosepiece, and poppet linkage assembly in reverse order. This includes clevis and cotter pin connections. Refer to sketch for linkage alignment
10. Carefully close coupler to draw components tight. Ensure that the nosepiece is properly aligned with the body before fully closing. This is to prevent damaging the quad ring (13) seal.
11. Use handle/retractor to pull the sleeve back and release the lugs.
12. Re-insert spiral retaining ring to the face of the coupler.

TO CHANGE THE SHAFT O-RING:

13. Open the coupler as instructed in step 3 above. Rotate handle in order to gain access to the spiral pin (11) that connects the handle (4) to the shaft (23).
14. Use a hammer and a punch to remove the spiral pin from the handle and shaft. Slide handle off of the end of the shaft.
15. Use a hammer and a punch to remove the spiral pin from the cam and shaft.
16. Use a pick to remove the dust seal (27). Discard the dust seal.
17. Remove retaining ring (29) using retaining ring pliers.
18. Slide shaft (23) out of the coupler to expose spacer washer (30) and product seal (15). Remove both and discard the O-ring only.
19. Lubricate both replacement seals with Parker Super Lube (or equivalent) and reassemble in reverse order.
20. Refer to drawing for proper handle/shaft and shaft/cam alignment.
21. Return to step 9.



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To Rebuild the Pump Assembly:

22. Depress the 5 retaining lugs to allow the sleeve and retractor bail to slide forward.
23. Remove 4 ea. 1/4" socket head cap screws attaching the pump assembly to the Coupler body.
24. Using a small pick, remove from the pump to body connection the following items: orifice cap and o-ring, spring, ball, check valve housing, and o-ring seat. Discard both o-rings.
25. Remove the front gasket and filter, discard.
26. Remove the rear vinyl cover.
27. Using Retaining ring pliers remove the pump piston-retaining ring from its groove and slide rearward while extracting the push rod assembly.
28. Remove from the push rod assembly the bearing disk o-ring, u-cup seal, and 2 ea. Felt packing. Discard.
29. Using a pick pry out the star retaining ring from the bottom of the piston bore in the pump body.
30. With the star retaining ring removed pick out the washer, spring, ball, check valve housing, and o-ring seat. Discard o-rings and star retaining ring.
31. Clean all remaining items thoroughly.

Pump Reassembly

Using new o-rings, seals and other consumables.

32. Reassemble the check valve in the bottom of the piston bore by inserting the components in this order: o-ring seat, check valve housing, ball, spring, check valve housing o-ring, washer, and star retaining ring. Using a punch ensure that the star retaining ring is pushed firmly against the washer.
33. Install two pieces of felt (presoaked in silicone oil) onto the first and last grooves of the pump piston.
34. Install the u-cup seal with the cup facing the flat end of the pump piston onto the center groove of the pump piston.
35. Install the o-ring onto the bearing disk of the push rod assembly. Lubricate the u-cup and o-ring with Parker Super O lube.
36. Insert the pushrod assembly and retaining ring into the piston bore until the retaining ring fits into the retention groove.
37. Reinstall the rear vinyl cover and foam filter.
38. Reassemble the check valve in the pump to body connection by inserting the components in this order: O-ring seat, check valve housing, ball, spring, check valve housing o-ring, orifice cap, and orifice cap o-ring.
39. Install new o-rings onto the 1/4 " socket head cap screws for the front of the pump assembly, and align the pump gasket with front mounting holes of the pump assembly.
40. Mount the pump assembly to the coupler body ensuring that all seals remain in place.
41. Torque the mounting screws to 15 – 20 in. lbs.

K2 & K2P KITS & REPLACEMENT PUMPS

Part No.	Description	Kit Includes
710050202	HP Viton seal kit	• Nose seal • Quad ring seal • Axial seal
710050201	Buna seal kit	• Shaft o-ring • O-ring (product) • O-ring (dust)
Pump Kits		
723000201	HP Viton Retrofit kit	• Replacement pump
723000200	Buna Retrofit kit	(Retrofits to J600 Coupler)



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