



DESCRIPTION	PART NO.	QTY	DESCRIPTION	PART NO.	QTY
KIT A, 112V	10009		KIT B	10004	
Plunger	▲	1	White Washer, 1/2" ID	▲	8
Backing Ring	▲	2	Valve Assembly	▲	4
V-packing	▲	4	O-Ring, 1-116	▲	4
Spreader	▲	2	Retainer Plate	*	2
WaveWasher	▲	2	Pump Head	*	2
White Washer, 5/8" ID	▲	2	Pump Manifold	*	1

(▲) Sold only as part of a kit. | (*) Not part of a kit, for identification only.

1. Remove pump from motor using a 3/16" hex wrench. Remove bolts from pump. Turn pump over so manifold is facing upward. Place manifold to side as a reference for reassembly. Figure 1 shows pump separate from motor. Manifold facing upward and set to side.



Figure 1

2. Holding each head, pull them apart to remove plunger. Remove retaining plate from pump head. Remove internal seal parts with finger. Discard parts, but keep head and retaining plate. Figure 2 shows pump heads pulled apart showing plunger, retaining plate and internal seal.



Figure 2

3. Clean the head with a rag or towel. Inspect for damage or excess corrosion. If the head is damaged, do not rebuild. (Note the order and orientation of repair parts prior to installation). Figure 3 shows repair parts in order and in correct orientation.



Figure 3

4. Place one 5/8" ID white washer, one wave washer, one spreader and two v-packings into bore. Figure 4 shows gasket, spreader and v-packings placed in bore.



Figure 4

5. Place backing ring on top of v-packings. The backing ring will not be even with surface and will need to be pushed down when sliding the retaining plate back into place. Slide the retaining plate back into place. Figure 5 shows backing ring on top of seal stack.



Figure 5

Figure 6 shows pushing down edge of backing ring with retaining plate



Figure 6

Figure 7

Figure 7 shows retaining plate in place

6. Repeat the previous steps 3-5 with the other head.

7. Lightly grease the plunger with the clear grease provided in small grey tube. Slide plunger into one head assembly and then slide the other head onto plunger. Place head and plunger assembly on work surface with valves facing upward. Figure 8 shows plunger in one head assembly with other head in position above plunger.



Figure 8

8. Adjust plunger slot position towards center and have slot facing work surface. Replace all valves, O-rings, and 1/2" ID white washers. Refer to image and manifold label to understand proper orientation. Figure 9 shows proper orientation with valves, O-rings and 1/2" ID white washers in place.



Figure 9

9. Place manifold on top of plunger and head assembly. It may be necessary to move heads on plunger to have valves align with valve pockets on manifold. Be careful not to lose the O-rings and valves or the white gaskets in the manifold during reassembly. Figure 10 shows moving heads on plunger to align with valve pockets. You may hear a click when everything is aligned.



Figure 10

10. Turn assembly over and place shorter bolts and washer assembly into heads and tighten finger tight. DO NOT tighten completely at this time.



Figure 10

11. Apply black grease from supplied packet into corners and center of plunger slot.

12. Mount pump back onto motor and tighten mounting bolts to 14 in/lbs. of torque. Tighten head bolts to 14 in/lbs. of torque.