

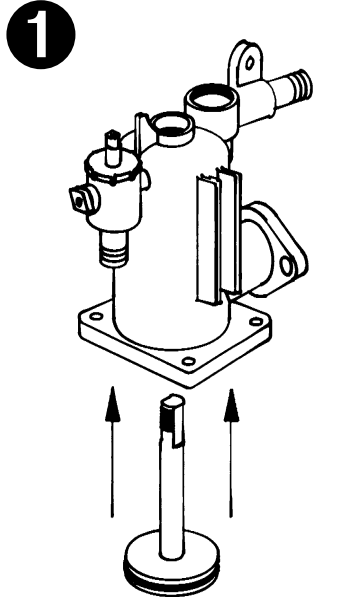
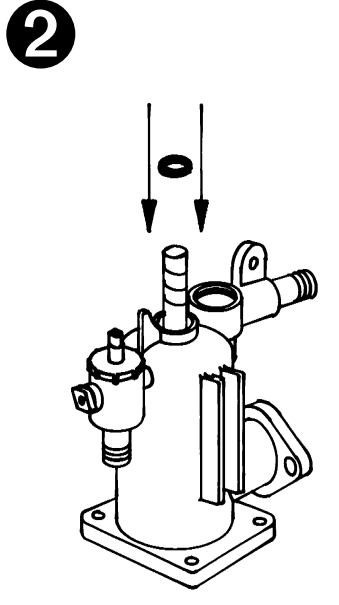
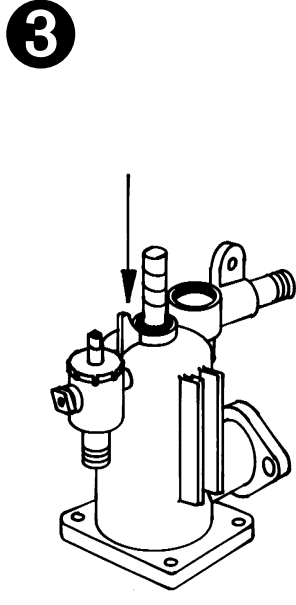
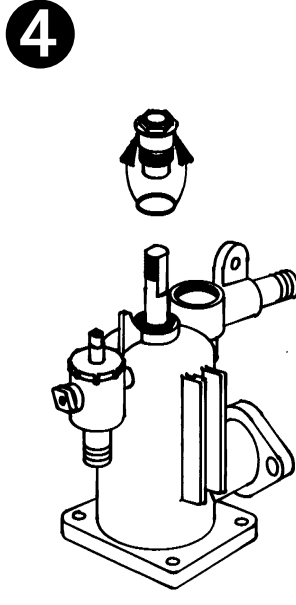
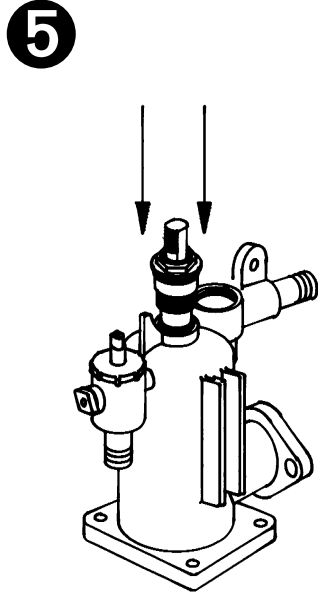
PHII SHAFT SEAL AND SEAL CARTRIDGE ASSEMBLY (1214W)

INSTALLATION INSTRUCTIONS FOR THE 1200C PUMP HOUSING

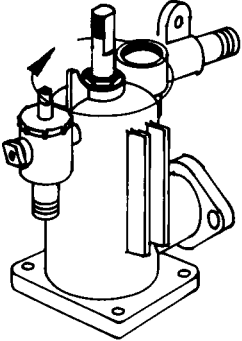
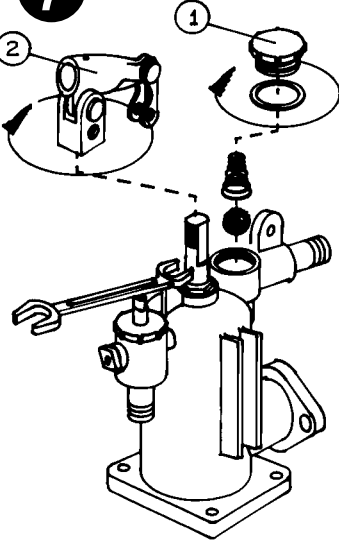
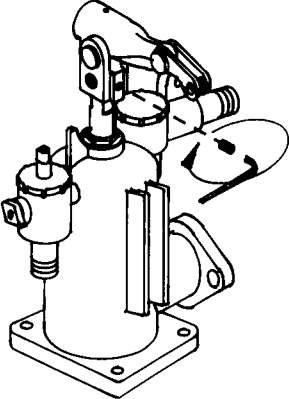
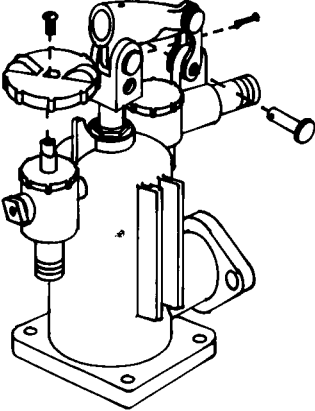
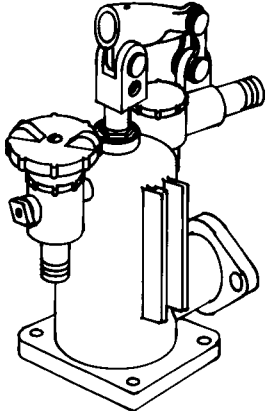
Tools Needed: Electrical Tape, 1/2" drive 7/8" deep well socket with ratchet, 3/8" open end wrench, water pump pliers, and 1/8" allen wrench

CAUTION: Be sure all SEACOCKS are CLOSED before working on toilet.


When repairing 1200CW Pump Housing refer to disassembly (on reverse side).

 <p>Diagram 1 shows the piston being inserted into the pump housing. The piston is a long, thin rod with a wider base. Two upward-pointing arrows indicate the direction of insertion into the central shaft of the pump housing.</p>	 <p>Diagram 2 shows the piston in place. Two downward-pointing arrows indicate the direction of wrapping electrical tape around the threads and the flat top section of the piston.</p>	 <p>Diagram 3 shows a seal being slid over the piston shaft. A downward-pointing arrow indicates the direction of movement.</p>	 <p>Diagram 4 shows an O-ring being placed on the seal cartridge. A downward-pointing arrow indicates the direction of placement.</p>	 <p>Diagram 5 shows the seal cartridge being slid down over the piston shaft. Two downward-pointing arrows indicate the direction of movement.</p>
<p>With Valve handle (1209B), outlet cap (1217), valve ball (1201) and spring (LWS) removed, install Piston (if it has been removed).</p>	<p>Wrap threads and flat part of piston with electrical tape to protect seal when installing. Wrap from flat sections upward to the threads. Slide seal down over shaft, (smallest diameter side up).</p>	<p>Slide seal below threads and tape.</p>	<p>Remove tape and install "O" ring on the seal cartridge</p>	<p>Slide seal cartridge down over piston shaft</p>

OVER

<p>6</p> 	<p>7</p> 	<p>8</p> 	<p>9</p> 	<p>10</p> 
<p>Screw cartridge into pump housing (using 7/8" deep weel socket) until it bottoms against the stop. Tighten to 30 in/lbs.</p> <p>Do Not overtighten; the O-ring will displace.</p>	<p>Install ball and spring (larger end down), then gasket and cap - tighten with water pump pliers Do Not overtighten cap; the gasket will displace.</p> <p>Hold shaft with 3/8" wrench, place handle socket & yoke assembly in position, start thread.</p>	<p>Tighten yoke down on piston shaft. Line-up set screw with flat part of shaft and tighten set screw.</p>	<p>Reinstall inlet valve handle.</p>	<p>Lubricate piston shaft with Raritan Super Lube (#SL).</p>

Disassembly - Reverse this process (Steps 6-10). After cartridge is removed, pull piston rod up to raise the seal from its position. Remove piston through the bottom of the pump if necessary.

	<p>RARITAN Engineering Company, Inc.</p>	<p>530 Orange Street, P.O. Box 1157, Millville, NJ 08332 USA Telephone: 609-825-4900 FAX: 609-825-4409 www.raritaneng.com</p>	<p>Southern Office and Plant: 3101 SW Second Avenue, Fort Lauderdale, FL 33315 USA Telephone: 954-525-0378 FAX: 954-764-4370</p>
---	---	---	--