

Supplementary Troubleshooting Model 942 POWERIG® Hydraulic Unit

Always check out the simplest possible cause of a malfunction first. Use these troubleshooting and repair instructions together with the Model 942 Instruction Manual to troubleshoot each malfunction.

1. Trouble:

Pumps start but will not build sufficient hydraulic pressure.

Probable Cause:

Leakage at Inlet Valve Seat (2), Figure 1., or leakage at Outlet Valve Seat (6), Figure 2.

Solution:

Replace Inlet Valve Seat (2), and/or Outlet Valve Seat (6).

To remove Inlet Valve Seat (2), P/N 113087:

1. Remove Air Unit (1). Remove adapter, spring and ball.
2. Remove reservoir cover with Adapter Block (4) attached.
3. Unscrew Inlet Tube (3) and push soft drift into hole.
4. Use hammer to tap drift, and remove Seat (2) from block.

To install Inlet Valve Seat (2):

1. Place Seat (2) with chamfer inward, into Adapter Block (4).
2. Use soft drift, and carefully tap seat into adapter block. CAUTION - do not damage ball seat of valve seat.
3. Screw Inlet Tube (3) into block.
4. Reinstall reservoir cover.
5. Reinstall air unit, adapter, spring and ball.

See other side for additional troubleshooting.

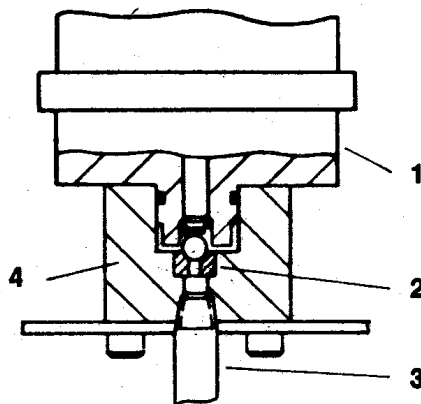


Figure 1

To remove Outlet Valve Seat (6), P/N 113111:

1. Remove Air Unit (1). Remove adapter, spring and ball.
2. Unscrew Plug (5), and remove spring and ball.
3. Unscrew Cap Screw (7) and push soft drift into hole.
4. Use hammer to tap drift, and remove Seat (6) from Adapter Block (4).

To install Outlet Valve Seat (6):

1. Push Seat (6), with chamfer inward, into Plug (5) hole.
2. Use soft drift, and carefully tap seat into adapter block. CAUTION - do not damage ball seat of valve seat.
3. Reinstall ball, spring, plug and screw. Reinstall air unit, adapter, spring and ball.

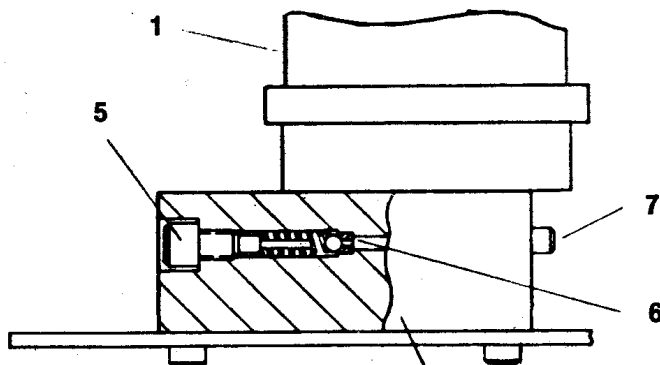


Figure 2

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2. Trouble:

Pumps start but will not build sufficient pressure. Oil exhausting from top of air motor(s).

Probable Cause:

Damaged U-cups, P/N 113081. Refer to Figure 3.

Solution:

Replace U-cups(s).

To change U-cups (10), P/N 113081, in the air motors:

To remove U-cup P/N 113081:

1. Unscrew Packing Nut (8) as shown in Fig. 3. (Use 15/16 box open end wrench.)
2. Remove Bearing (9). CAUTION—do not damage inside diameter of bearing.
3. Remove U-cups (10) as shown in Fig. 3.

To install U-cup P/N 113081:

1. Smear Lubriplate on U-cup(10) and install in Adapter (11). Be sure U-cup is pointing down.
2. Push Bearing (9) in with chamfer or inside diameter pointing up. CAUTION—do not damage inside diameter of bearing.
3. Screw on Packing Nut (8) loosely. Push Plunger (12) into opening in packing nut, and thru U-cup.
4. With plunger in U-cup, tighten packing nut to 300 inch lbs.

3. Trouble:

Hydraulic fluid leaking from Ball Stop Plug (11-3) and/or Screw (21-1). Refer to 942 Instruction Manual.

Probable Cause:

Used or damaged copper Gasket (11-4) used with Ball Stop Plug (11-3). Used or damaged copper Gasket (21-2) used with Screw (21-1)

Solution:

Replace copper Gasket (11-4) and/or copper Gasket (21-2).

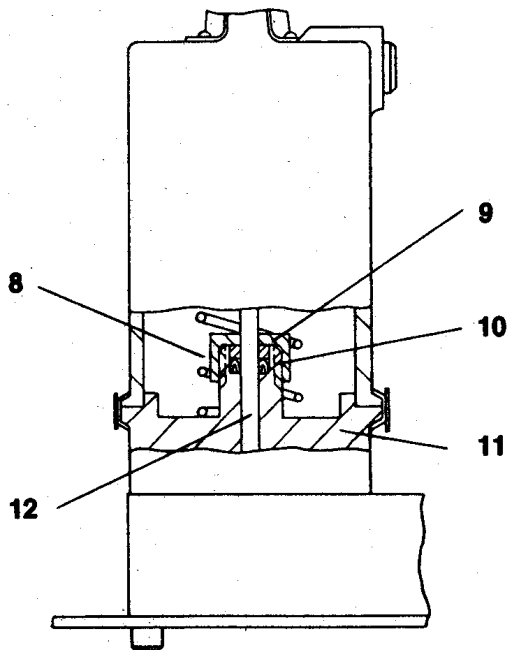


Figure 3