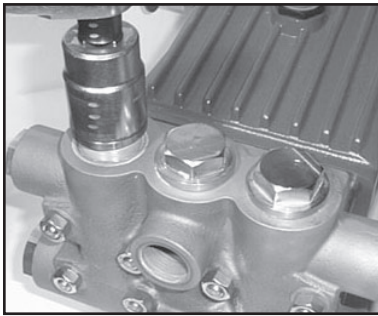
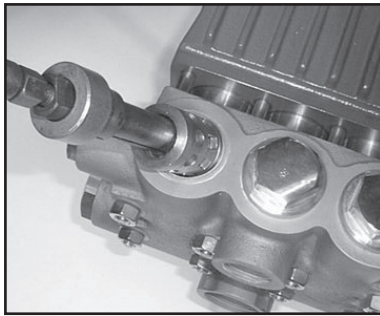


# CLP121AGB-5123 Repair Instructions

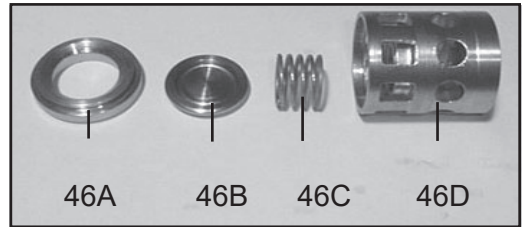
**Note: Do not use mineral oil on seals and o-rings. Use silicone grease only.**



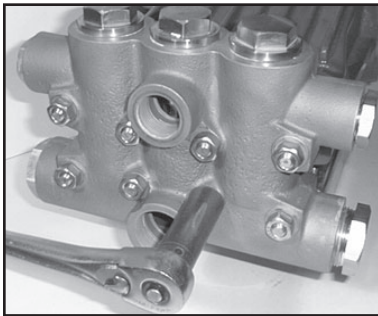
1. With a 30mm wrench, remove the (3) plugs (48).



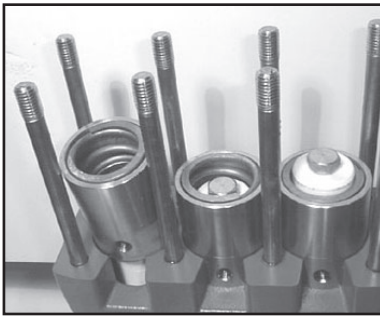
2. Remove the complete valve assembly (46) with valve pullers.



3. Loosen valve seats (46A) from spacer pipe (46D) by lightly hitting the valve plate (46B) with a plastic stick. Check sealing surface and replace worn parts. Reassemble with new o-rings (44A) and oil them before installing. Tighten up tension plugs (48) to 107 ft.-lbs. (145 Nm).

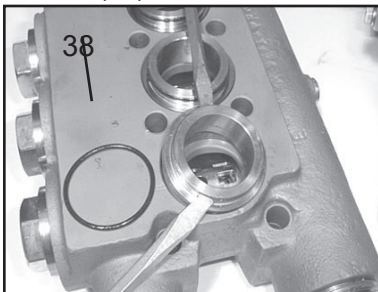


4. Loosen the 8 nuts (49A) with a 19mm wrench. Tap the back of the manifold (43) with a rubber mallet to dislodge and slide off the studs (49).

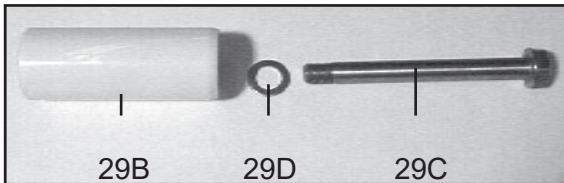


5. Pull seal sleeves (35) out of guides in crankcase (1).

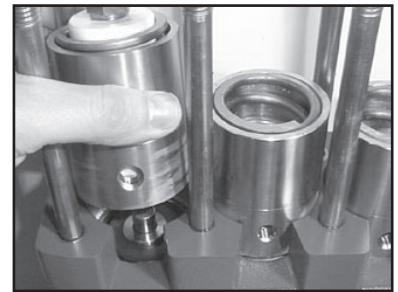
6. Remove the spacer sleeve (42), support ring (41), v-sleeves (40), support ring (40A), guide ring (39), from the seal sleeve (35). Examine seals (36) carefully and replace if worn. Clean all parts.



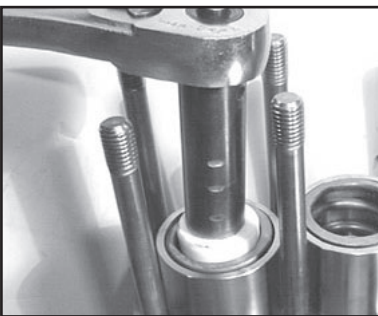
7. Remove seal case (37) from valve casing (43) and inspect o-ring (38).



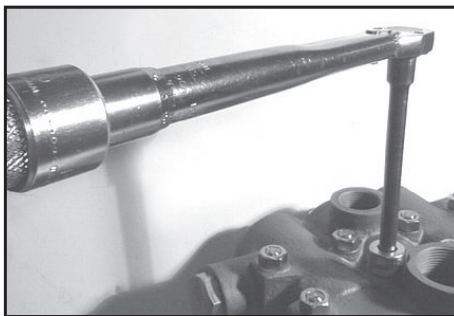
8. Check plunger surface (29B). If plunger pipe is worn, loosen tension screws (29C) and pull off plunger pipe to the front. Clean front surface of plunger (25) thoroughly. Apply a thin coat of Loctite to the tension screw threads (29C). **Note: Care must be taken that no glue gets between the plunger pipe (29B) and the centering sleeve (29A).** Add new copper ring (29D).



9. Place new plunger pipe (29B) carefully through the oiled seals and push seal sleeve (35) with plunger pipe into the crankcase guide. **Note: Make sure weep hole is facing down.**



10. Tighten the tension screws (29C) to 26.5 ft.-lbs. (35 Nm). The plunger pipe (29B) should not be strained by over tightening of the tension screw (29C) or through damage to the front surface of the plunger; otherwise, it will probably break.



11. Place valve vasing (43) over studs and push firmly until seated against the crankcase (1). Tighten the hexagon nuts (49A) in a crosswise pattern (shown above) to 59 ft.-lbs. (80 Nm).

