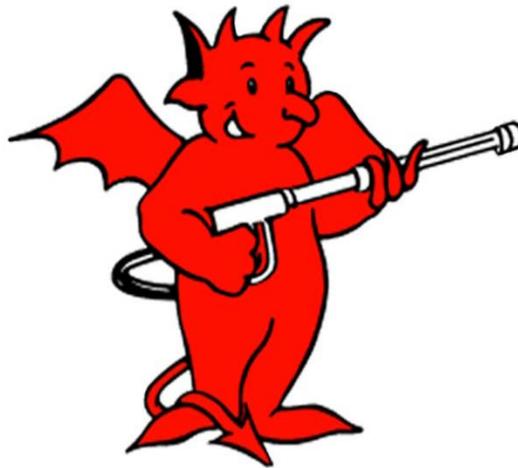


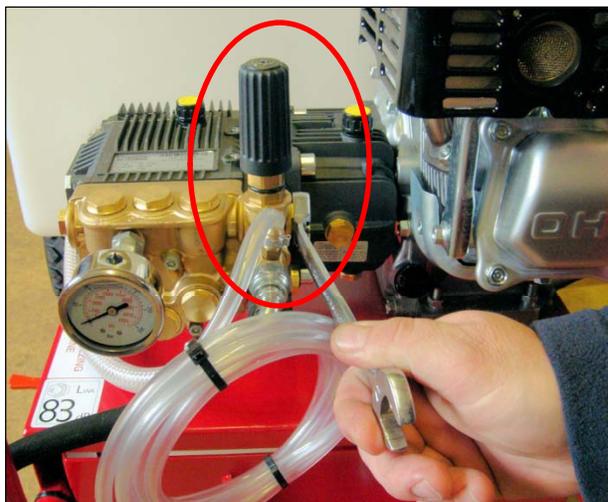
# How to..... Change seals & Carriers



Mini-Bowser P2 Range

This guide will show you how to change the pump seals and carriers on a Mini-Bowser.

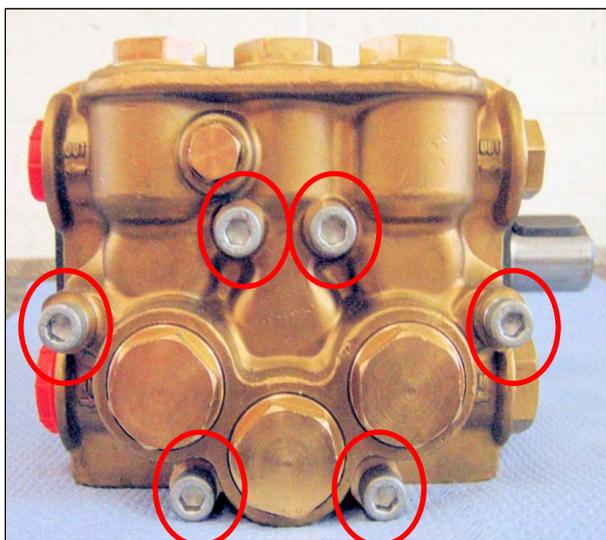
Ensure the machine is switched off and drained of water using the drain valve and any pressure is released from the trigger.



**1.** First of all disconnect the unloader valve from the head using . . . . And put to one side.



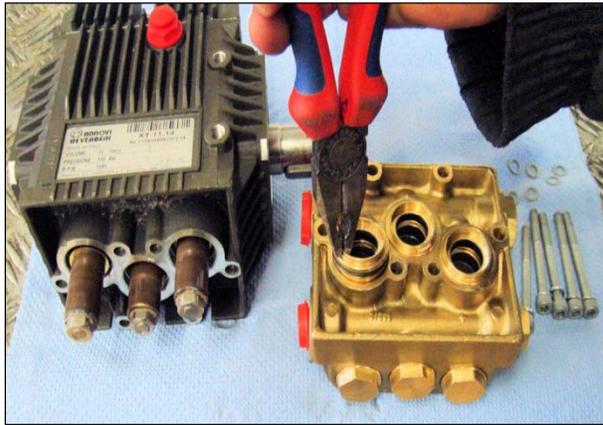
**2.** Take off pressure gauge using a 17mm spanner to gain access to allen bolts.



**3.** This then exposes the side of the pump. You will need to remove the 6 x M5 allen bolts using an allen key.



4. Once allen bolts are all removed separate the pump head from the pump ensuring not to damage the pump or head. Then gentle prise apart .



5. Remove the seal carriers from the pump head or from the pistons if they have got stuck on them.



6. Remove the brown seal and blue back up ring from the head.



**7.** Take the seal kit (ARKIT1874) and the 3 x Piston Guides (AR1320351)



**8.** Take the piston guide and the black outer O'ring and place on the outside of the piston guide in the groove. Repeat for all 3 piston guides.



**9.** Take the inner plastic black seal and place inside the piston guide. Repeat for all 3 piston guides.



**10.** Take the blue back up ring and place inside the pump head. Repeat for all 3.



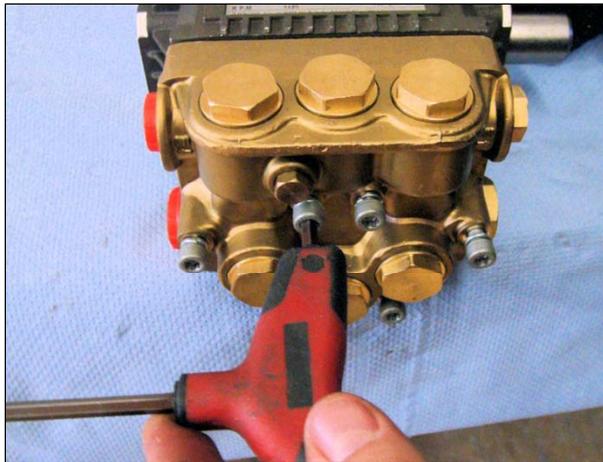
**11.** Take the brown seal and place on top of the blue back up ring, pushing it into place. Repeat for all 3.



**12.** Take seal carrier with o-rings in place and apply a thin layer of silicon grease around the outer o-ring. Push into the head ensuring not to nick the o-ring. Repeat for all 3.



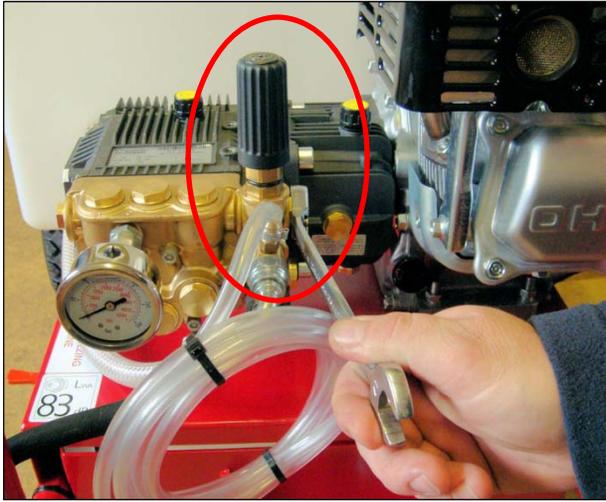
**13.** Push the head back onto the pump. If it appears to be tight, then gently tap with a hammer to ease onto pistons.



**14.** Tighten the M5 allen bolts.



**15.** Reconnect pressure gauge and tighten using a 17mm spanner.



**16.** Reconnect unloader valve and tighten using

This completes the change of seals and carriers.