



How to change the diaphragm in the Vermorel 2000 series knapsack sprayer

1. Ensure that the sprayer is clean, dry and depressurised.
2. Remove pumping lever and harness – Fig 1
3. Unscrew & remove pressure limiter. Remove the poppet valve & spring and keep in a safe place – Fig 2 & 3. TIP: Use the lid to store small parts
4. Pull off the pump cover – Fig 4
5. Undo the tank retaining screw TIP: You can use a small coin - Fig 5
6. Undo and remove the white pressure chamber – Fig 6
7. Lift the tank off the frame
8. Slide the pump assembly out of the frame – Fig 7
9. Remove the spring
10. Undo the retaining nut and pull the crank assembly off of the pump chamber – Fig 8
11. Check the condition of the pump inlet/outlet valves and replace if necessary – Fig 9
TIP: They are a push fit
12. Using a 10mm socket, undo the diaphragm retaining nut. Replace the diaphragm – Fig 10
13. Reassemble using the keyways in the components for correct alignment.
14. Correctly locate the diaphragm and its retainer using the keyways. Do not tighten the retaining nut. – Fig 11
15. Push the crank assembly onto the pump chamber ensuring that the bearing lugs engage between the two raised profiles – Fig 12
16. Hold the diaphragm retainer in the correct position using the keyway as a guide and tighten the nut – Fig 13
17. Reassemble using the reverse of points 1-8 N.B. Follow the instructions below to reassemble the pressure limiter
 - a. Lay the sprayer on its back – limiter side up
 - b. Place the spring and plunger into the limiter body ensuring that it is centrally located.
 - c. Position the limiter onto the male thread and turn the yellow ring anticlockwise until the number '1' is aligned with the black pin. You will hear a click – Fig 14
 - d. Turn the yellow ring clockwise until the number '4' is aligned with the black pin, then turn 2 more complete revolutions. It is now ready for operation.



Fig 1

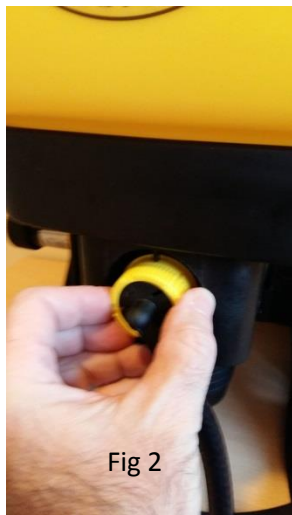


Fig 2



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7



Fig 8



Fig 9



Fig 10



Fig 11



Fig 12



Fig 13

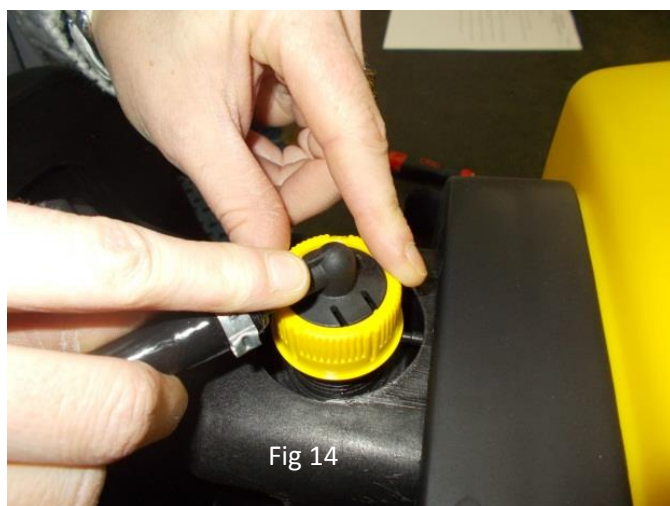


Fig 14