# Control Unit Solenoid Valve Cleaning Instructions

**Model 464 125 psi** (sold until January 2016)

## Tools and Materials Needed

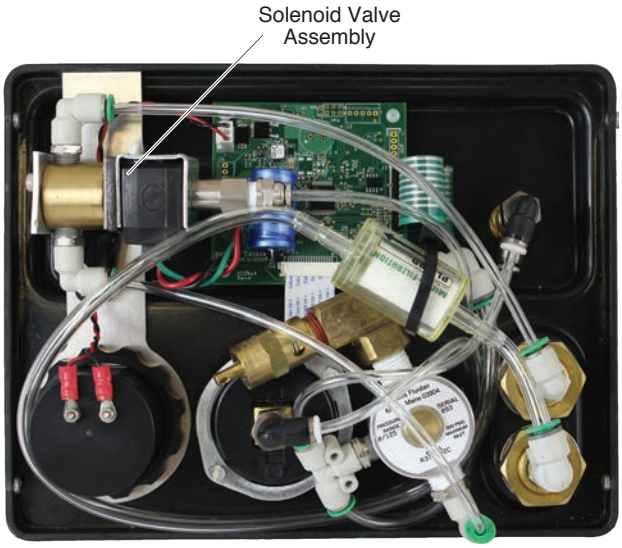
1. 3/32" Allen Key
2. Small Utility Knife
3. 9/64" Allen Key
4. Cotton swab
5. Distilled water
6. Any suitable plastic adhesive (e.g. silicon)

## Instructions

**Note:** These instructions are for Model 464 125 psi Control Units sold up until January 2016.

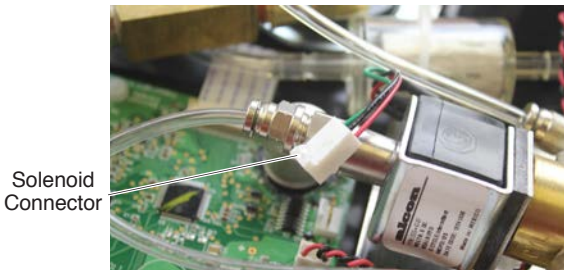
1. Turn the Control Unit off and remove the batteries.
2. Use the 3/32" Allen key to undo the four hex screws on the sides of the Control Unit.


3. Remove the panel from the Control Unit and flip it over to access the Solenoid Valve Assembly.

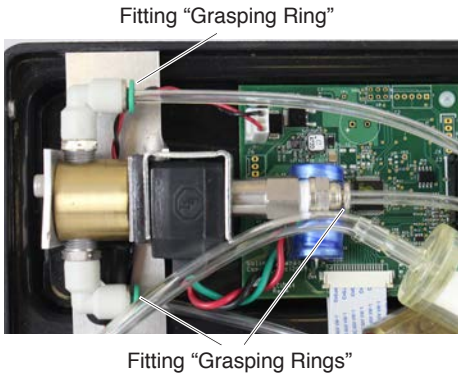



4. Use the small utility knife to break any adhesive seal that is holding the Solenoid connector to the circuit board.

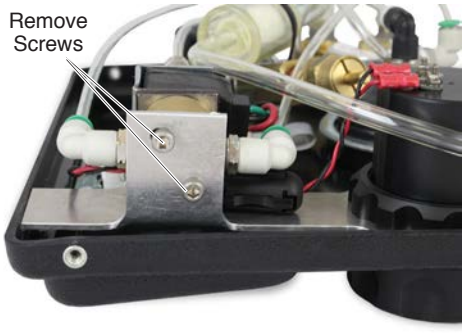

5. Carefully, pull to remove the Solenoid connector from the circuit board.




6. Remove the tubing from the three fittings on the Solenoid Valve Assembly, by pushing on the "grasping ring" on the fitting (to release tubing) and pulling the tubing out.




7. Use the 9/46" Allen key to remove the two screws holding the Solenoid Valve Assembly to the bracket.

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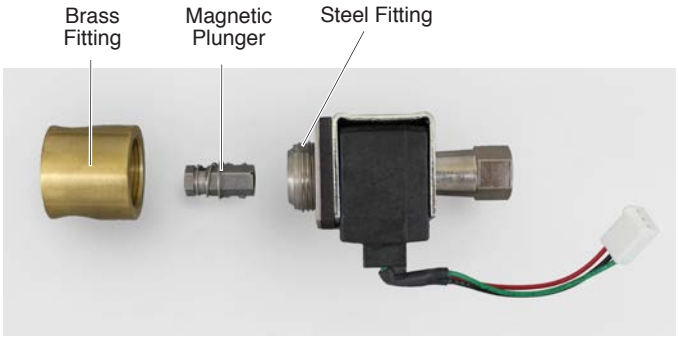
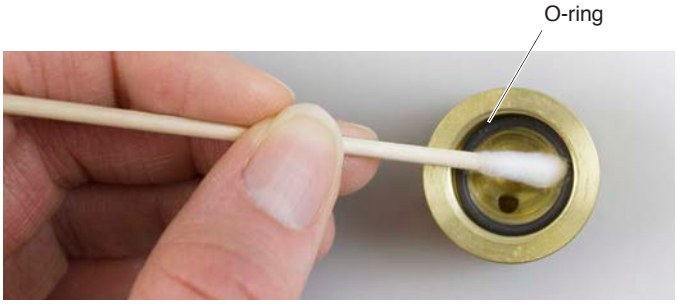
8. By hand, unscrew the brass fitting from the Solenoid Valve Assembly, and pull out to remove the magnetic plunger from the steel fitting.



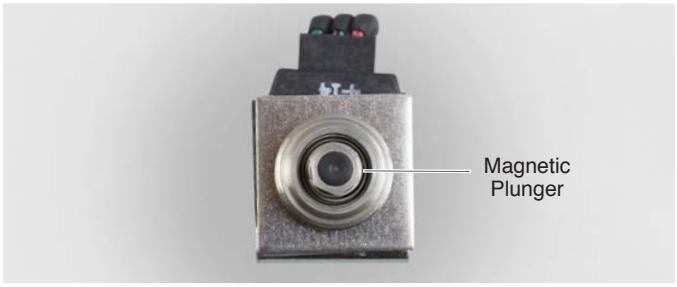

**Note:** The photo above shows the tubing fittings removed from the Solenoid Valve Assembly, you do not need to remove these.

9. Inspect the small rubber circular pad on the end of the plunger. If this pad is damaged, dented, etc., the Solenoid will not seal properly, therefore you may need a new Solenoid Valve Assembly. (Contact Solinst). See photo below comparing a damaged pad to a pad in good condition.

10. To clean the Assembly, use a cotton swab and distilled water to clear any debris and dirt from inside the brass fitting, around the o-ring, steel fitting and from the magnetic plunger.




11. Ensure the o-ring is properly seated inside the brass fitting. Insert the magnetic plunger back into the Solenoid Valve Assembly, and screw the brass fitting back onto the Assembly.




12. Mount the Solenoid Valve Assembly to the bracket using the two screws.
13. Push the tubing into the three fittings. Refer to the photo on Page 1, to ensure proper connection.
14. Reconnect the Solenoid connector to the circuit board. After connection, add a small amount of adhesive to the outside of the connector to help secure it to the circuit board.
15. Place the panel in the Control Unit case and reinstall the four hex screws.
16. Reinstall the batteries. Test the Control Unit to ensure proper connections were made and the Solenoid is now functioning.





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