



FOAM LANCE SERVICE MANUAL



A STEP BY STEP GUIDE

DETAILING NATION FOAM LANCE SERVICE MANUAL

Welcome to the Foam Lance Service Manual. Within these hallowed pages, you shall find a step by step guide to servicing your lance.

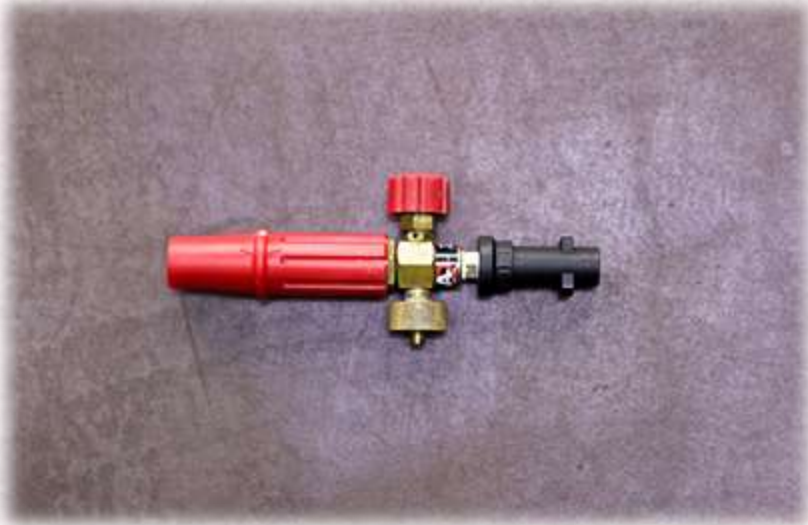
Why would you do this I hear you ask? Well, over time, snow foam solution deposits in the gauze of the lance (the bit that makes all the magical foam), causing the flow to be interrupted, making it more like sleet as opposed to snow.

With a small selection of tools, and a short amount of time, you will be able to restore your lance to optimum performance once again.



IN THE BEGINNING

In the beginning is one under performing foam lance. It is straight forward to resolve.



Grab an adjustable spanner, flat and Phillips screwdrivers, a socket and ratchet and some PTFE tape. A vice is helpful, however, not essential.





Either place the lance in the vice, or grasp firmly.

Using the adjustable spanner, remove the adaptor by turning anti-clockwise.





1

With the adaptor removed (1), carefully push the securing pin from the lance using a tool such as a small allen key (2). This will enable you to remove the plastic sheath as per the bottom picture (3).



2

3





With the lance in a vice, or holding firmly, use the adjustable spanner to remove the adaptor connecting piece from the lance body, revealing the injector as per the picture below.





Using a flat head screwdriver, carefully turn anti-clockwise the injector, removing and storing in a safe place.





Using the flat head screwdriver, gently prise the blades from the lance body. These can be quite firm, so use caution.





With the lance in a vice or firmly grasped, use the adjustable spanner to remove the blade holder from the lance body.



Inside the blade holder is the gauze. This is the part we are cleaning or replacing.



From the back end of the blade holder section (from which you have removed the blades), use a small allen key (or similar tool) to gently push the gauze free from the holder.



One gauze, ready to clean or replace. To clean, soak in regular household kettle descaler overnight.

One blade holder, free of the gauze. Note the small opening in which the injector pushes the foam solution.





Use the Phillips screwdriver to remove the lance adjuster.

Carefully remove and put to one side, the O-ring pictured below.





Gently loosen the lance shaft from the body at this point.

Hold the body of the lance in a vice (or hold firmly), and using a small socket, gently remove the pickup inlet from the body of the lance as shown.





Remove the pickup inlet from the body of the lance as above. Now remove the lance shaft from the body as below.

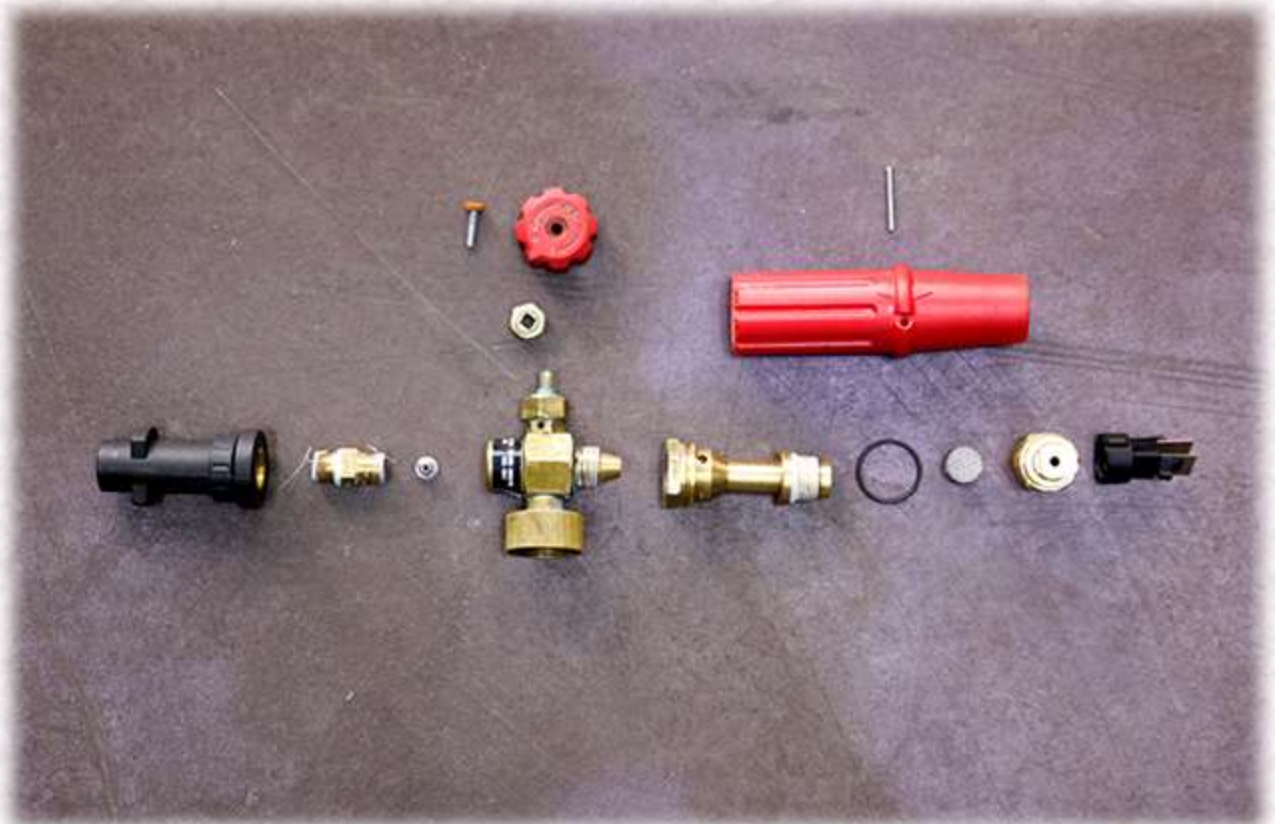


With the body now completely separate from all parts of the lance, carefully examine all holes, and ensure they are free of product. Clean using a pin, or similar thin tool.



POINT OF RETURN

At this point, the lance is completely disassembled. It is now that you replace the gauze with either a new or cleaned item, and begin reassembly. Ensure you have all of the pieces below.





Apply PTFE (plumbers) tape to the thread as shown above, a few wraps should be sufficient. Then carefully reattach the lance shaft to the body as per the picture below.





Secure the lance body in a vice (or hold firmly) and tighten the shaft onto the body using the adjustable spanner. Then reapply the O-ring you removed earlier as per the picture below.





Reattach the lance adjuster to the top of the body with the screw. Apply PTFE tape to the end of the lance shaft as shown above

Then, reinsert the gauze into the blade holder, and apply to the end of the lance shaft. Refit the pickup inlet to the bottom of the body in reverse of the removal.





Firmly push the blades back on to the blade holder as above, leaving the partially reassembled lance looking as below, ensuring the blades are vertical.





Replace the plastic part of the shaft to the lance, and replace the pin carefully into the locating hole, firmly pushing into place.

Reinsert the injector into the body, and apply PTFE tape to the adaptor connector on both ends. Secure the adaptor to the bar, then the bar/adaptor to the body.



CONGRATULATIONS!

Ladies and gentlemen, you have now successfully completed a full service of your Detailing Nation foam lance. Be proud of your achievements.

GO FOAM!

