

SPME Arrow Conversion Kit Weldment

Installation Instructions for Agilent 7890 Split/Splitless Injectors

(cat.# 27493, 27357, 27362)

Caution: Before beginning installation, confirm the following:

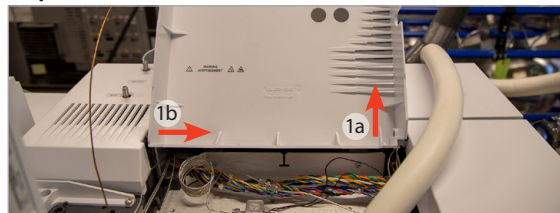
- The instrument is turned off and unplugged.
- All heated zones are cool.
- The inlet gas supply to the instrument is turned off.
- The gas lines are removed from the electronic pneumatics control (EPC).

Required tools: T-10 and T-20 Torx screwdrivers

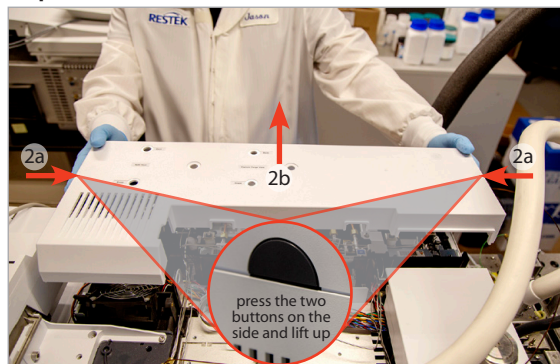
1. Remove the top cover of the 7890 by opening the flap 90 degrees, (a) pulling up on the right side, and (b) then pulling the peg out on the left side.
2. Remove the back top cover by (a) pressing in the two buttons on the side and then (b) lifting it up.
3. When installing the weldment in the rear inlet, the back panel will have to be removed. If an exhaust deflector is installed, remove it by (a) lifting it up to release the hooks, and then (b) pulling it back.
4. Remove the top of the back panel by taking out the screws with a T-10 Torx screwdriver.
5. Disconnect the weldment from the inlet by turning the yellow lever counterclockwise.
6. Trace the pair of gas lines associated with the inlet you will use from the weldment to the EPC.

(continued, next page)

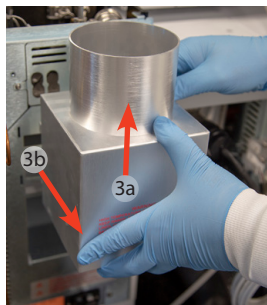
Step 1



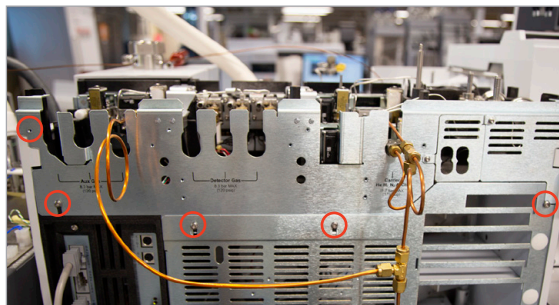
Step 2



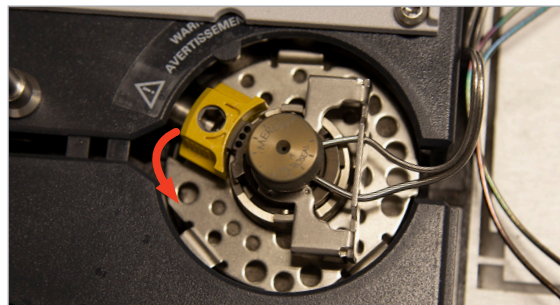
Step 3



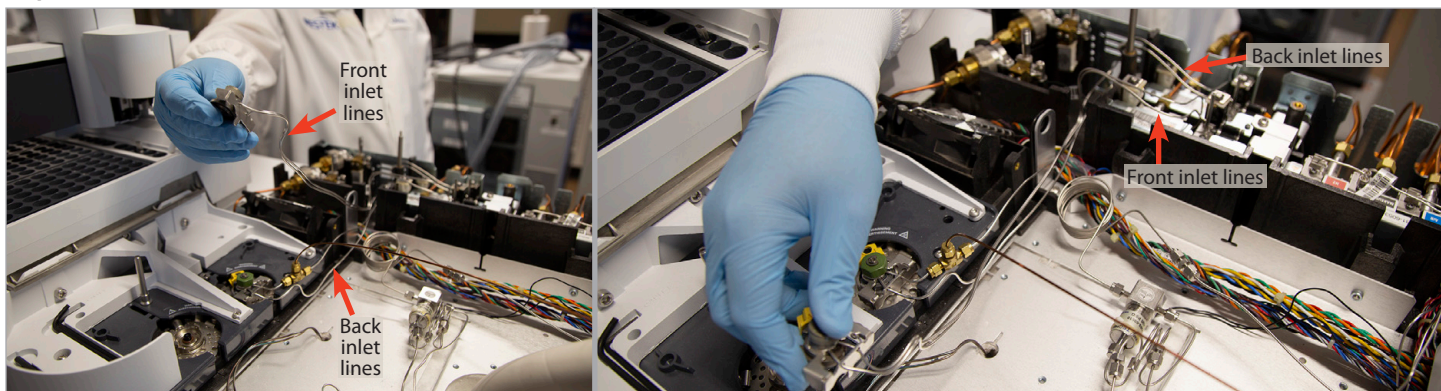
Step 4



Step 5

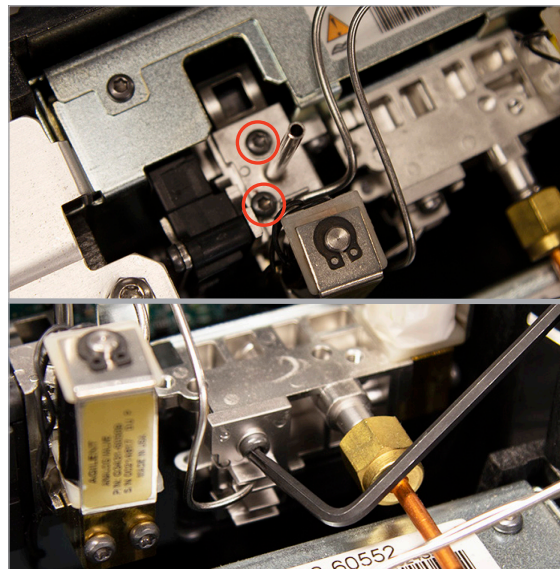


Step 6

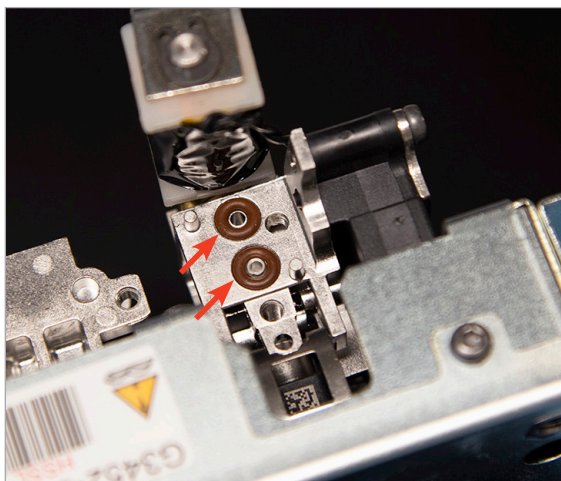


7. Remove the weldment lines from the EPC using a T-20 Torx screwdriver.
8. Inspect the O-rings in the EPC and confirm that they were not removed or damaged when the weldment lines were removed.
9. Attach the new weldment lines to the EPC. The line with two screws and a chimney needs to be attached to the top of the EPC, and the line with just one screw needs to be attached to the back of the EPC. Make sure the holes in the fitting line up with the indexing pins on the EPC (the EPC has two indexing pins on the top and one on the back).
10. Screw down the weldment lines using the T-20 Torx screwdriver. Do not overtighten as this may damage the O-rings.
11. Run the weldment gas lines as shown in Step 6. Take care to not bend the lines too sharply because this may break them.
12. Install a SPME Arrow compatible liner, O-ring, and septum into the inlet.
13. Attach the weldment, nut, and adaptor cup that are included in this kit.
14. Reattach the carrier gas lines, plug in the GC, and turn the power on.
15. Using an electronic leak detector, check the new weldment for leaks at both the EPC and inlet ends.
16. If no leaks are found, reinstall the back panel and top covers.

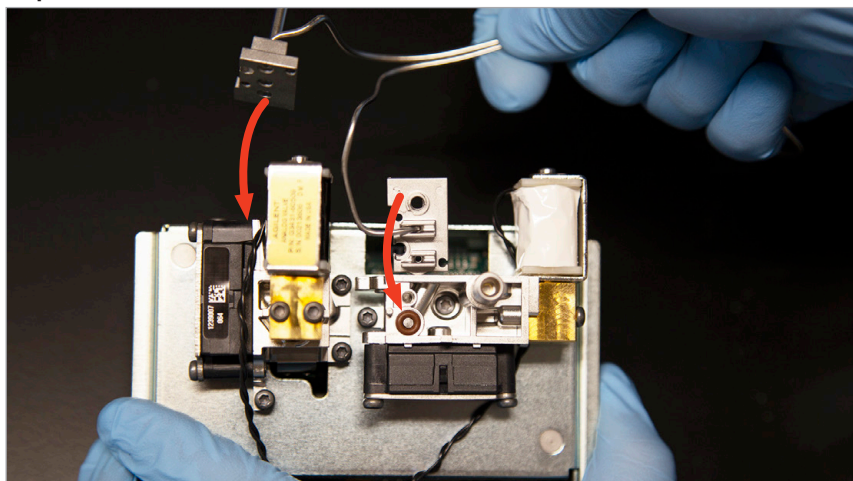
Step 7



Step 8



Step 9



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