



Field Installation of UltrAA Lamp Harness Kit

This instruction sheet describes how to install the wiring harness to support the use of Agilent UltrAA Lamp hollow cathode lamps on Agilent 50/55/140/240/240FS/240Z AA instruments and SpectrAA 110/220/220FS/220Z instruments.

This kit (part number 9910094200) should contain the following parts:

Description	Quantity
Assy loom UltrAA lamp, part number 0110613900	2
Box mailing	1
Plate, part number 0910096200	1
Housing 7-way burndy/receptacle, part number 1210108600	1
Screw M3 x 12 pan, part number 1510107400	4
Washer spring 3.1 ID stainless steel	4
Bag 150 x 100 x .07 mm/NO4 plastic	2
Installation instructions, part number 8510157100	1
Clamp shield	1
Screw M4 x 12 pan	2
Label high voltage	1
Shield UltrAA lamp socket	1

Each kit supports two UltrAA lamps, and needs one UltrAA lamp supply. If four lamp positions are to be UltrAA lamp-capable, then you will need another kit, part number 9910094200, and an additional UltrAA lamp power supply.

Installation

To install the UltrAA lamp harness kit:

- 1 Remove the lamp door and the instrument right top cover.
- 2 Remove the two stainless steel screws at position 1 so that the flat plate and HCL socket can be lifted away from the thicker right-angled bracket.
- 3 Remove the lamp base from the flat bracket by removing the two knurled black adjusting screws and the third holding screw. Take note of the relative positions of these three screws as you will need to replace them later. Keep the three screws and the springs for use later.
- 4 Remove the lamp base and attached wiring harness and discard. Take note of where the lamp harness is plugged into the control board. You will need to plug the replacement lamp base plug in the same socket.



- 5 Take one of the replacement lamp base looms (part number 0110613900) supplied with the kit, and push the wires through the hole in the lamp panel from where the previous wires were removed.
- 6 Install the black lamp base on the flat bracket using the three screws and springs removed at Step 2 (ensure that the plastic covers, large spring and white clamp are in position). Use the same relevant positions for the three screws as observed on the other lamp base.
- 7 Plug the white 4-pin plastic connector into the control board in the socket position that the previous lamp base was plugged into – see Step 4.
- 8 Take the wiring harness with the three loose pins and push them through the small plate (part number 0910096200) supplied with the kit (the four root nuts must face away from the rear panel). Then push the same wires through the appropriate empty UltrAA lamp hole in the back panel of the instrument. You will first need to remove a small plastic bung from this hole in the back panel.
- 9 Repeat Steps 2 through 7 for lamp position 2.
- 10 Take the wiring harness with the three loose connectors and push them through the same small plate as used at Step 8. Then push the wires through the same UltrAA lamp hole as used at Step 8.
- 11 Push the 6 loose wire connectors into the supplied 7-pin connector (part number 1210108600) in the positions shown below.
- 12 For reference: Lamp position 1 wires: red to pin 1 blue to pin 2 violet to pin 3
Lamp position 2 wires: red to pin 4 blue to pin 5 violet to pin 6
- 13 Use the four supplied screws (M3 x 12 pan), and the four supplied spring washers to screw the connector through the back panel to the small plate (see Step 8) inside the instrument.
- 14 If the slots and clinch nuts are present, use the two M4 x 12 screws supplied and clamp the clamp shield to attach the shield to the outside of the back panel over the appropriate connector. Click the tongue into the slot on the rear panel and attach the label to the shield.
- 15 If installing a second kit, repeat Steps 2 to 7 but read “lamp positions 1 and 2” in the instructions as “lamp positions 3 and 4” and repeat Steps 8 to 13.
- 16 Replace all instrument covers.

This information is subject to change without notice.



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