

BRUKER - S4 PIONEER

XRF Spectrometer

OEG Tube Adaption



Work Instruction

The Varian OEG-92J-Rh can be used in many Bruker XRF instruments. These offer the possibility of significantly improved results.

INSTALLATION PROCEDURE

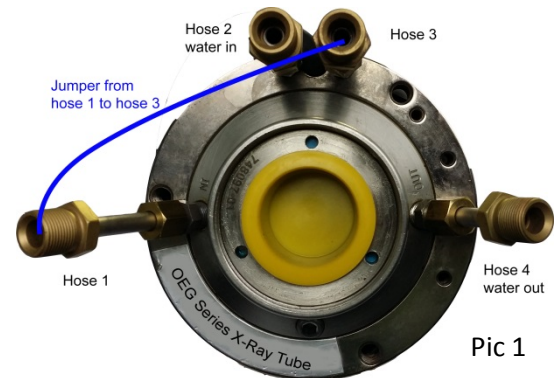
1. Remove existing tube.
2. Remove tube guide and lower support with the toggle levers.

THE OLD NOZZLE MUST BE RETURNED TO AXT

1. The tube guide safety stop on the lower support frame is too high for the OEG tube. Bend this flush.
2. Remove the clamps and install clamp spacer blocks (Part number BRUK-AK-846884) with screws (Part number BRUK-AK-1940) and washers (Part number BRUK-AK-M5 flat washer).

PREPARE THE TUBE AS FOLLOWS:

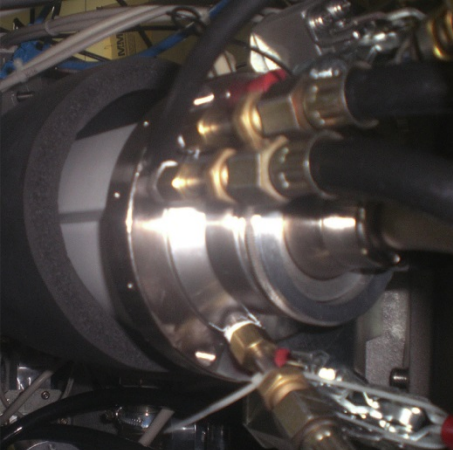
1. Fit O-ring (Part number BRUK-AK-N67x5.7) into brass vacuum ring (Part number BRUK-AK-1996...)
2. Slide on the brass vacuum ring (Part number BRUK-AK-1996-15.6) for an OEG-92 or (Part number BRUK-AK-1996-14.2) for an OEG-96.
3. Fit the water adaptor fittings (Part number - BRUK-AK-1937) referring to the supplied photo showing the layout where the longer adaptor goes (refer to Pic 1).
4. Fit the tube hose loop (hose 1 to hose 3) as per Pic 1.
5. Shorten the filament cable as required (approximately 600mm long).
6. The tube can now be installed and clamped.
7. Rotate the tube anti-clockwise for water fitting clearance.
8. Adjust clamps for firm support.
9. Observe the correct water flow sequence and connect hoses.
10. Viewing the installed tube, the supply attaches 2nd from the left (hose 2), the loop goes from hose 1 to hose 3, and the return hose attaches to the far right fitting (hose 4).
11. Attach the earth cable with screw (Part number BRUK-AK-1938) and washer (Part Number BRUK-AK-M4 spring washer).



Pic 1

THE HT CABLE

1. Remove the screw ring and spacer ring.
2. Remove the clamp halves, these can be re-installed when the new screw ring (Part number BRUK-AK-4183) and wavy washer that comes with (Part number BRUK-AK-4183) is in place.
3. The HV connector O-ring can be removed to permit enough thread purchase on the screw ring (Part number BRUK-AK-4183).



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OEG X-RAY TUBE ADAPTATION KIT CHECK LIST

Item	Part Number	Description	Nr. per Kit	Check List
Vacuum seal ring (brass)	BRUK-AK-1996-15.6	For OEG-92 installation brass ring	1	<input type="checkbox"/>
Vacuum seal ring (brass)	BRUK-AK-1996-14.2	For OEG-96 installation brass ring	1	<input type="checkbox"/>
O-ring	BRUK-AK-N67 x 5.7	Seal ring	1	<input type="checkbox"/>
Nose cone O-ring	BRUK-AK-N7-233	Sealing O-ring	1	<input type="checkbox"/>
Aluminum blocks	BRUK-AK-846884	Spacer blocks for toggle clamps	2	<input type="checkbox"/>
Screws M5 x 45 stainless steel philips head	BRUK-AK-1940	For aluminum blocks (stainless steel)	8	<input type="checkbox"/>
Washer flat M5 stainless steel	BRUK-AK-M5flat washer	Goes under - screws M5 x 45	8	<input type="checkbox"/>
Screw 10# 32 TPI x 3/8" s.steel allan head	BRUK-AK-1938	For earth strap	1	<input type="checkbox"/>
Washer spring M4 stainless steel	BRUK-AK-M4 spring	Goes under - screw 10# 32TPI x 3/8"	1	<input type="checkbox"/>
Cable retainer ring	BRUK-AK-4183	Aluminum threaded ring for HT cable	1	<input type="checkbox"/>
Wavy washer (spring steel)	BRUK-AK- wavy washer	Wavy washer for cable retainer ring	1	<input type="checkbox"/>
HV Silicone paste P4	BRUK-AK-P4	Silicone grease for high voltage cable plug	1	<input type="checkbox"/>
Water adaptors (kit) (4 items)	BRUK-AK-1937	Imperial to metric conversions for water pipes. (The kit has Nut 2901505, Olive 2900409, Fitting 1/4" NPT to M14x1, 1/4" stainless steel tube)	1	<input type="checkbox"/>