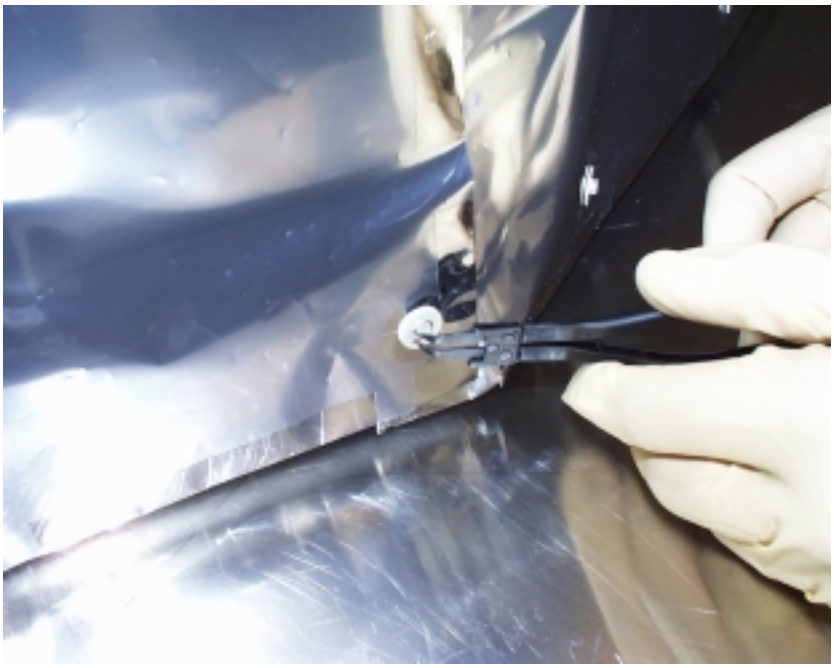
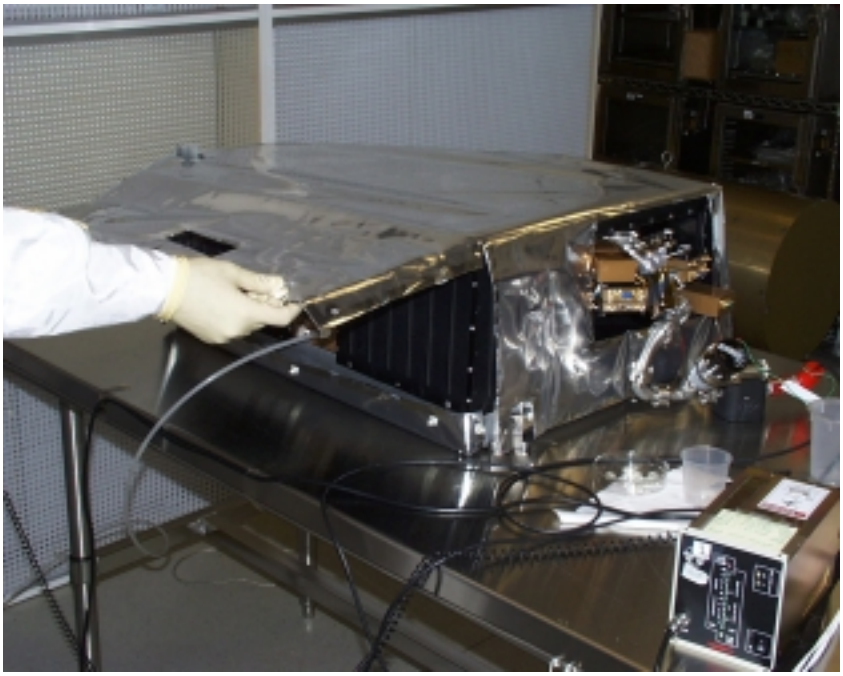
PROCEDURE FOR THE REMOVAL AND INSTALLATION OF THE ALUMINUM COVER ON THE IMAGE FUV SPECTROGRAPHIC IMAGER

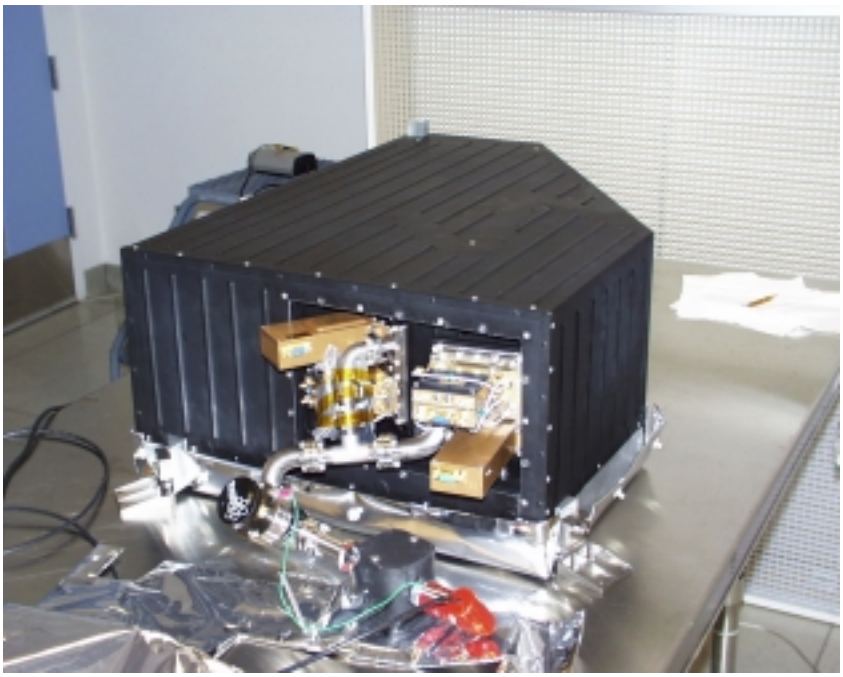
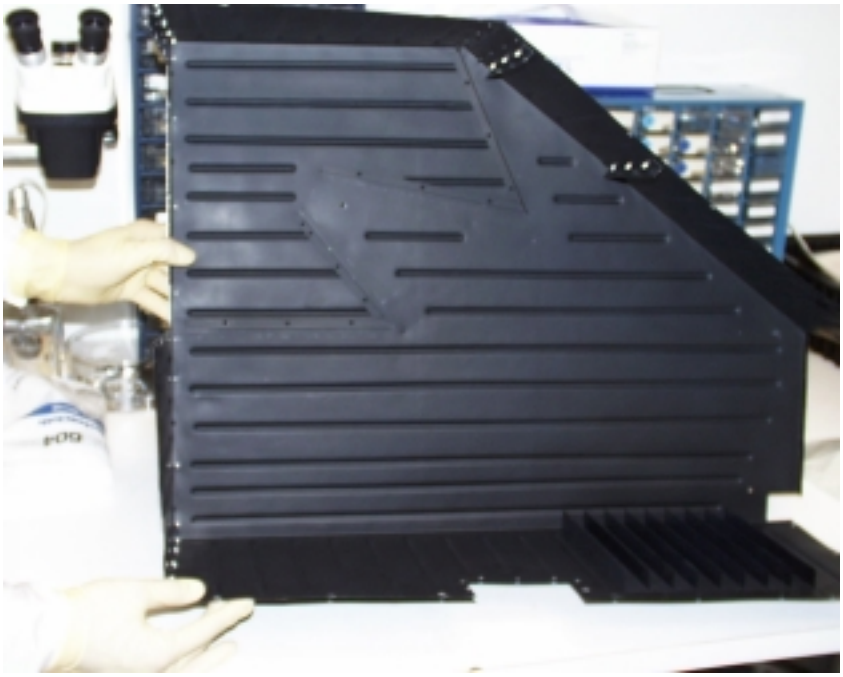
This Procedure was generated from notes on the removal and re-installation of the Image FUV Spectrograhic Imager Cover in the Clean Room (Room 20) at SSL by S. Habraken and J.L.Tom on 11-Aug-98

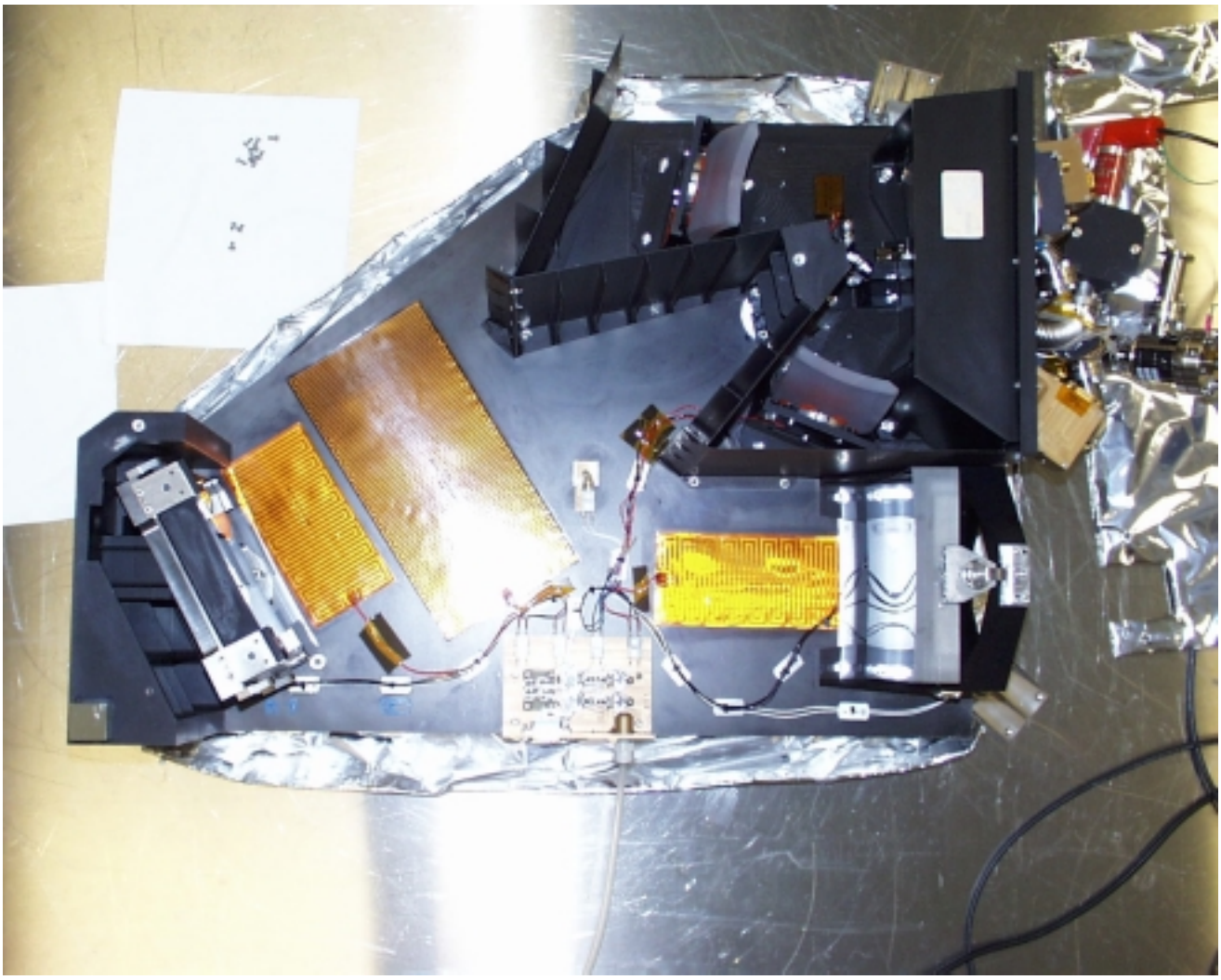
1.	**Removal of the Thermal Blanket** (a) Remove the snap-rings on the plastic fasteners along the edges of the thermal blanket with the snap-ring pliers. (b) Remove the plastic washer from the plastic fasteners (c) Lift off the thermal blanket
2.	**Removal of the SI Aluminum Cover** (a) Remove the screws that fasten the cover with a 2 mm Allen wrench Note that there are two lengths of screws that hold the cover on the SI Longer (12mm length) screws are used allow the base of the instrument where the tapped holes do not have threaded inserts Shorter (6 mm length) screws are used on the upper regions of the cover where these screws go into threaded inserts on the supporting housings (ie front cover housing, detector housing) (b) Slotted screws used around the detector region are not to be removed as they are used to hold on an adapter plate around the detector opening (c) Deflect the cover to clear around the detector screws (slotted head screws) (d) Lift the cover straight upward to avoid hitting the OPTICAL CUBE and baffle vanes inside the optics cavity.
3.	**Re-installing the SI cover** (a) Lower the cover straight downward onto the SI baseplate with precautions to avoid hitting the OPTICAL CUBE, sliding over the permanent slotted head screws around the detector region and matching the baffle vanes on the cover to the vanes on the instrument. The cover is properly aligned and the cover vanes are on the proper side of the internal vanes when the screw hole on the top of the cover aligns with the threaded hole on the support structure near the exit slit region. Torque screws to 1.2 newton-meter (10 in-lb)
4.	Before **re-installing the thermal blanket**, the edges of the cover are to be sealed for light leakage using Black Kapton Tape

Photos showing the removal of the SI thermal blanket

	Snap Ring Pliers used to remove Snap Rings around the thermal Blanket fasteners
	Thermal Blanket lifted up on the side of the Spectrographic Imager where the electrical/purge interconnect panel is located

Photos showing the Spectrographic Imager Cover

	Fasteners on the SI Cover (1) Every other screw around the detector opening are Slotted Head screws which remain on the cover (not to be removed). The Slotted Head screws are used to fasten an adapter plate to the detector support plate (2) M2.5 Socket Head screws that fasten around the detector opening are shorter (6 mm) in length (3) M2.5 Socket Head screws that fasten around the bottom edge of the cover are longer (12 mm) in lengths
	Interior region (underside) of the SI Cover with stiffening ribs and light baffle vanes



Threaded hole (bright circular object in photo) above exit slit support aligns with hole in the top of the SI cover