

## APPENDIX A: Changing the ABM Mask Frame and Substrate Chuck

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### General Use Precautions:

- **Emergency Stop** — If something goes horribly wrong with the system, a large red button (above the right control panel) can be hit to stop the pneumatic system and minimize damage to the equipment.
- **Eye Protection** — UV light protective goggles should be worn while using the UV flood source. They are stored in black cases, and kept in the cabinet next to the tool.

### General Use Procedure:

1. Turn on the exposure system according to **steps 1- 2** in the **ABM/OAI Flood Source and Alignment System SOP**.
2. Disconnect (pull) the **MASK VAC** tube from the barb fitting on top of the mask frame.
3. Loosen the the set screws on the left and right sides of the mask frame support. Remove the mask frame and set it aside.
4. Disconnect (pull) the orange **CONTACT VAC** tube from the barb fitting at the chuck base.
5. Disconnect (pull) the clear, small **SUB VAC** tube from the barb fitting at the chuck base.
6. Disconnect (pull) the clear, large **CHUCK VAC** tube from the barb fitting at the chuck base.
7. Loosen the the set screws on the left and right sides of the underside of the substrate chuck. Remove the chuck and set it aside.
8. Install the replacement chuck and mask frame in the reverse order (**steps 7 to 2**).
9. Proceed with **step 4** in the **ABM/OAI Flood Source and Alignment System SOP**.

