

START-UP PROCEDURE FOR MA8 ALIGNER

1. STAND-BY STATUS

- Check the status of the following before proceeding to Part 2 and 3:
 - i. Compressed Air at 5-6 bar
 - ii. Nitrogen at 1 bar
 - iii. Vacuum at -0.8 bar or less

NOTE: The following procedures are performed with the MAIN POWER SWITCH “ON”. The values for air pressure, vacuum and nitrogen are all at the proper settings (see table). If any of above conditions is not correct, please call Oleg Kirillov (×2087) or Rich Roppolo (×2096).

2. EXPOSURE LAMP IGNITION

- Check the status of Constant Intensity Controller (CIC). If it is in “**IDLE 900**” mode , go to Part 3 (MASK ALIGNER START-UP)
 - If CIC unit is in “**STAN D-BY**” mode, press **ON** key and wait until “**READY**” appears on the screen
 - Press **CP** key and wait until “**STAR T =>>**” appears on the screen
 - Press **START** key
 - The “**LAMP COLD**” message will display and **LAMP LIFE/POWER LED** will flash until the lamp is warmed up
- ATTENTION: Nitrogen failure for longer then 5 min. will turn off the exposure lamp! Do not attempt to turn the lamp on again! Call super-user or facility manager!**
- If it reads “**0.0 900**”, press **CH2** key and go to Part 3 (MASK ALIGNER START-UP)

3. MASK ALIGNER START-UP

- Turn the **POWER SWITCH ELECTRONIC** on the front panel control clockwise into **ON** position and release it

The message will display:

“Ready for Start – press LOAD Button

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- Press **LOAD** key on the keyboard

The message will display:

“Watch out machine is starting!”

- Proceed to loading the mask and the substrate

SHUT-DOWN PROCEDURE

1. MASK ALIGNER SHUT-DOWN

NOTE: Mask Aligner computer and UV exposure lamp (CIC controller) should be turned off at the end of the day.

- Make sure that the mask is unloaded and mask holder on the tray, otherwise it might damage your mask and aligner
- Turn the **POWER SWITCH ELECTRONIC** on the front panel control clockwise into **OFF** position and release it. Use the off switch located on the control panel to the right of the microscope stage not the Main Power switch.

2. UV EXPOSURE LAMP SHUT-DOWN

- Make sure that the mask aligner is off (see Mask Aligner Shut-Down section)
- Press **OFF** key on the Constant Intensity Controller, the message will display **“STAN D-BY”**.