

VBEAM Installation Procedure

CAUTION!!

During any part of this procedure when it is possible that the laser might function and emit light, SAFETY EYEWEAR must be worn. The eyewear must have an optical density of at least 6 at 591nm to 597nm

The high voltages present in this system are LETHAL. This procedure must only be performed by certified technicians who are familiar with the special precautions required when working with high voltage systems. And those who have been trained to work on the Vbeam and its particular hazards. Before any troubleshooting or adjustment is attempted that may make it necessary to put one's hands inside a high voltage areas of the Vbeam, the high voltage capacitor must be discharged and the system's power must be turned off. Great cautions should be observed to insure that all high voltages have been discharged. This laser system can maintain lethal voltages for many hours after shutdown.

Procedure:

1. Inspect the shipping crate for signs of shipping damage or activation of the shock indicator.
2. Remove the six 9/16" bolts from the front of the crate then remove the laser system and accessories from the shipping crate.
3. Verify that the site meets the electrical and environmental requirements outlined in the system's Operator's Manual. See: (8501-01-1510)
4. Remove all panels and inspect for loose hardware or any damage that may have occurred during the shipment of the laser.
5. Install the bottle of COT, add distilled water, install charcoal filter on dye reservoir, and install cryogen canister.
6. Check for leaks while allowing the system to warm up, but do not attempt to calibrate the laser in normal mode until a full systems check has been completed.
7. Verify that the fluid temperature is calibrated correctly. See: (8503-01-0765)
8. Verify that the DCD pressure is calibrated correctly. See: (8503-01-0766)
9. Verify high voltage reference and sample calibrations. See: (8503-01-0767)
10. Verify laser head/optical rail alignment. (8503-01-0768)
11. Verify Head and Wave length detector calibrations. See: (8503-01-0769 and 8503-01-0771)
12. Verify Calibration port detector calibration. (8503-01-0770)
13. Install all dust covers, shields and panels.
14. Calibrate the laser in normal mode using the 7, 10 and 3x10mm sliders at maximum fluence at 1.5, 10, and 40msec.
15. Record the after data on the VBEAM System Performance & Usage Data Sheet (10-400-0030).
16. Complete the System installation evaluation Form and the Service Repair Report (10-040-01410).