

# Specpoint Systems Development Inc.

Ultraviolet Ammonia Detection Systems  
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## INSTALLATION AND SET UP INSTRUCTIONS

### Part 124932E UV Detector Tube

1. Disconnect power from instrument.
2. Remove defective UV Detector Tube and replace with new one. Install in holder with curved cathode up with centerline of aluminum sample tube. Note that only one half of tube clamp is required. Leave out extra screw. Verify tube is clean of dirt and fingerprints.
3. Remove UV Source Tube and clean with lint and oil free cloth and reinstall.
4. Remove Aluminum Sample Tube part number ADL 5003 and clean with oil free cloth and pure acetone solvent.
5. Inspect inner surface. It should be very bright but not polished. **Do not scratch or repolish.**
6. Let dry, then reinstall
7. Reconnect detector cables.
8. Return power to instrument.
9. Set standardize to mid travel.
10. Pass clean sample of gas nitrogen or air through instrument at normal flow rate. The instrument reading should be near zero.
11. Let instrument run for 5 minutes. It should remain near zero with door remaining shut.
12. Use the correct calibration "span screen" for the instrument range. Check by attaching span screen in the normal and described way outlined in instrument manual.
13. The amplifier gain adjustment is P2 (1 meg ohm). Check zero and then span two times for best accuracy.
14. It is suggested that the UV lamps PN500034-A through E operating current be checked and in the range of .4 to .8 milliamps. If it is greater than .8 milliamps, suspect abnormal aluminum sample tube finish quality. See number 5. An incorrect surface finish will cause high lamp currents and shorten tube life, replace as required with new.

#### **Note: Only on 50013-A-B.4 UV amplifier board.**

Red and green LED feature:

Green: indicates normal lamp current.

Red: indicates abnormal lamp current.

Revised 2004