



TROUBLESHOOTING OLD STYLE O3 GENERATORS

I. SCOPE:

When an ozone generator fails, the discharge tube is almost always discovered to be bad. On occasion, however, the transformer fails. This service note is designed to assist the customer or technician in determining if the transformer has failed. This will reduce repair costs to the customer by increasing confidence that the discharge tube replacement will restore operation to the ozone generator.

II. TOOLS:

#2 Phillips head screwdriver
Ohmmeter or DVM

III. PROCEDURE:

WARNING!

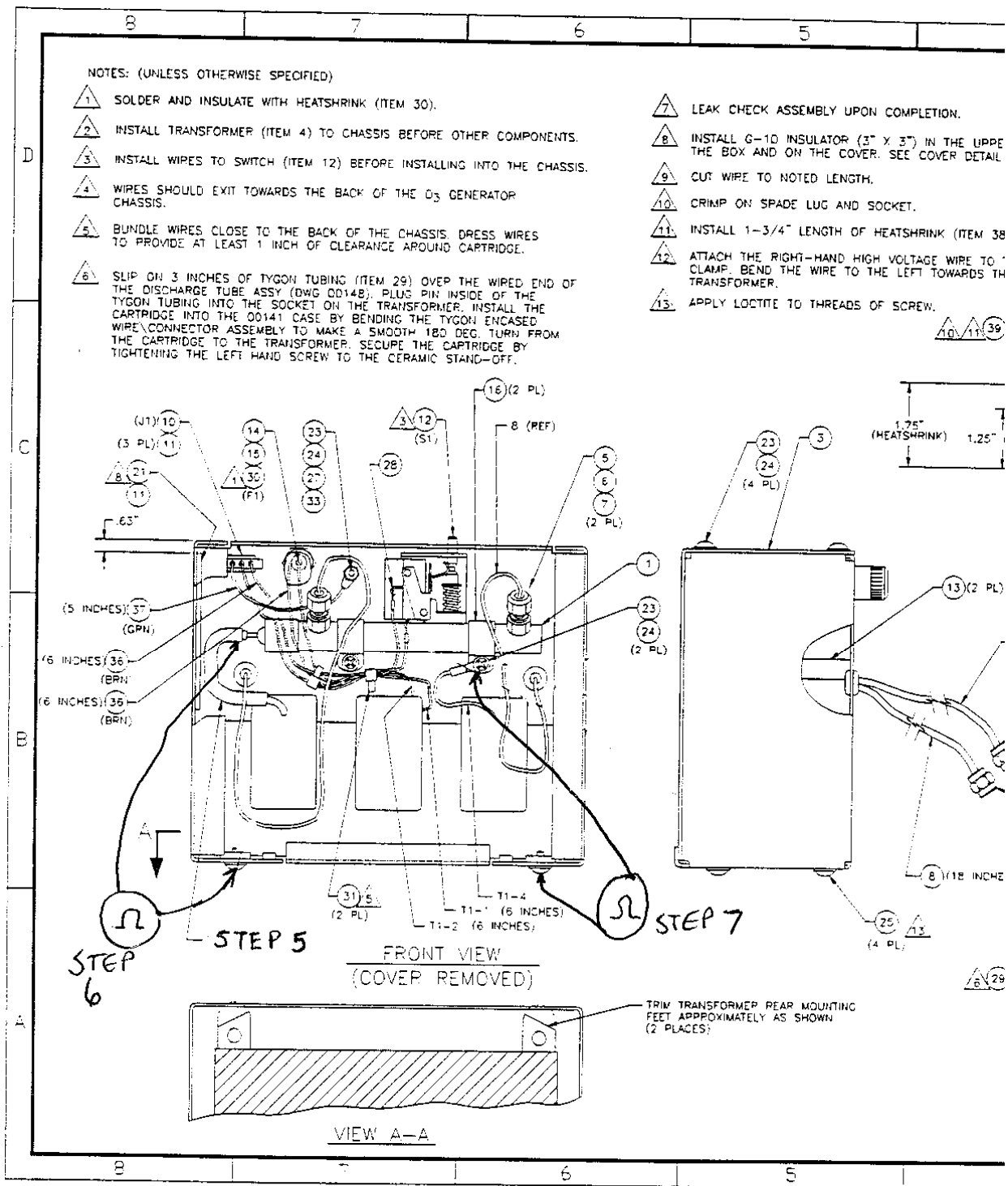
**Lethal voltage is present in the O3 generator when power is applied!
Ensure that the power cord is removed from the chassis prior to
removing**

1. Remove the power from the analyzer and remove the top cover.
2. Locate the O3 generator in the left rear of the analyzer.
3. Remove the 4 screws in the top cover.
4. Remove the top cover. There is a safety switch inside which will remove the power to the O3 generator upon removal of the cover. This switch prevents exposure to the lethal voltages present in the O3 generator. This switch must not be relied upon for the safety of the technician. Power to the chassis must be removed prior to removing the cover of the O3 generator.

NOTE: For the following steps, see the attached assembly drawing.

5. Disconnect the discharge tube from the transformer wire.
6. Measure the resistance between the chassis of the O3 generator and the transformer wire, which you disconnected in step 5.
7. Measure the resistance between the chassis of the O3 generator and the discharge tube housing.
8. The resistance of either measurement must be 11K Ohms, \pm 500 Ohms.
9. The difference between the two measurements must be less than 1,000 Ohms.
10. If the transformer has passed the above tests, it can be assumed to be good and replacement of the discharge tube assembly should restore operation.

If you have any questions regarding this or any API equipment, please contact an API Customer Service representative.



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