



06-011B
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Ozone Generator Brick Adjustment Procedure for "E" NO_x Series Analyzers

- I. PURPOSE:**
Occasionally the Ozone (O₃) Generator (Gen) Brick circuit board stops O₃ production on "E" series units in the field. This can be due to several factors, but may be resolved by simply adjusting the drive voltage higher.
- II. TOOLS:**
#2 Phillips screwdriver
Potentiometer adjustment tool or similar small screwdriver
Voltmeter (DVM) or similar
- III. PARTS:**
None
- IV. PROCEDURE:**
1. Take off cover of analyzer.
 2. With analyzer running and with O₃ generator on, measure TP4 (positive) to TP5 (ground) in mVDC.
 - a. It should be somewhere above 1.2 mVDC, but below 3 mVDC.
 3. Calculate a new voltage for the mVDC setting.
 - a. If the voltage is below 0.6 mV, the new setting will be 1.2mV
 - b. If the voltage is above 0.6mV, multiply the current reading by 2.
 - c. Example 1.5 X 2 = 3 mV (new setting).
 - d. Do not go above 6 mV
 4. Use VR1 potentiometer (may be labeled PW) to adjust the voltage to the new setting.
 5. Switch the voltmeter to measure AC volts, 0 – 10 or 20 volt range.
 - a. Measure TP3 to TP6 in volts AC, and record for future reference.
 6. Check that the analyzer reads gas by inputting span gas and proceed to recalibrate the analyzer.