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Service Note

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# PREVENTING LIGHT OVERLOAD TO THE PMT

## I. PURPOSE:

To prevent high PMT values at zero due to light overload. This causes high stray light / auto-zero readings which can last for several hours / days. The goal is to keep ambient light away from the PMT.

## II. PARTS:

NONE

## III. TOOLS:

1.375 in. diameter x 0.5 in. Black Foam-Rubber Plug or 2 in. square piece of cardboard and tape or equivalent that blocks light.

## IV. PROCEDURE:

1. Read completely before performing any disassembly or action.
2. Disconnect tubing and cables from the reaction cell assembly.
3. Remove the reaction cell assembly from the analyzer.
4. While removing the reaction cell assembly, keep the opening of the PMT housing covered and away from any light source.
5. After removing the reaction cell and while keeping the opening covered, insert the foam-rubber plug into/tape the cardboard square across the opening to keep light from entering the PMT housing.
6. Complete operations to the reaction cell i.e. cleaning, replacement, etc.
7. While keeping the opening covered, remove the foam plug/cardboard square and reconnect the reaction cell to the PMT housing.
8. Insert two retaining screws and tighten until snug.
9. Insert any remaining screws, tighten completely and finish assembly.
10. Leak check analyzer.
11. Flow check analyzer.
12. Calibrate per the instructions outlined in the manual.



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