

1. Overview

These instructions describe how to install the NO_x Filter into the probe and hose assembly of various Bacharach combustion gas analyzers. The NO_x filter removes cross-interfering acid gases, including NO, NO₂ and SO₂, that could affect the CO measurement.

2. Items Required

- Replacement NO_x Filter (P/N 0024-1505)
- Probe and Hose Assembly
- Scissors



3. Procedure

Use the following procedure and Figures 1, 2, and 3 to insert the NO_x Filter in-line with the sampling system.

Step	Description
1. Locate	Locate the gas sample hose. Refer to Figure 1 for examples, or check the documentation associated with your gas monitoring instrument.
2. Separate	If the gas sample hose is connected to an additional parallel hose (e.g., draft hose or T-Stack hose), separate a portion of the gas sample hose (approximately 5" or 12.7 cm) from that parallel hose using scissors to carefully cut along the connective webbing. Be sure to cut ONLY the connective webbing between the hoses and not the hoses themselves. Refer to Figure 1 and Figure 2.
3. Remove	Using scissors, carefully cut and remove a piece of the gas sample tubing (approximately 1.5" or 3.8 cm in length) where the NO _x filter will be placed. Make the first cut approximately 2" (5.1 cm) from the end of the gas sample tubing. Cut the hose and place the 2" end piece (with metal connector if applicable) aside. Make another cut approximately 1.5" (3.8 cm) from the previous cut and discard the 1.5" (3.8 cm) section of hose. Refer to Figure 1, Figure 2, and Figure 3.
4. Insert	Insert the NO _x filter in-line where the piece of gas sample hose was removed by pushing each section of tubing about halfway onto the NO _x filter barbs. Note that the NO _x filter is not direction dependent.
5. Trim	In applications that have a draft hose, trim excess tubing from the end piece of the gas sample hose so it and the draft hose are the same length.



NOTE: Filter life is dependent on the application and has a capacity of approximately 3000 ppm•HR. When new, the filter material is purple, but will change to dark brown as the filter loses its capacity to remove acid gas.



NOTE: A barbed hose connector is included in the NO_x Filter Kit to reconnect the gas sample hose when the NO_x filter is not in use.



IMPORTANT: The housing of the NO_x filter is made of nylon. Do not expose it to alcohol, solvents, or glycol, as these substances will cause the NO_x filter to deteriorate prematurely and fail.

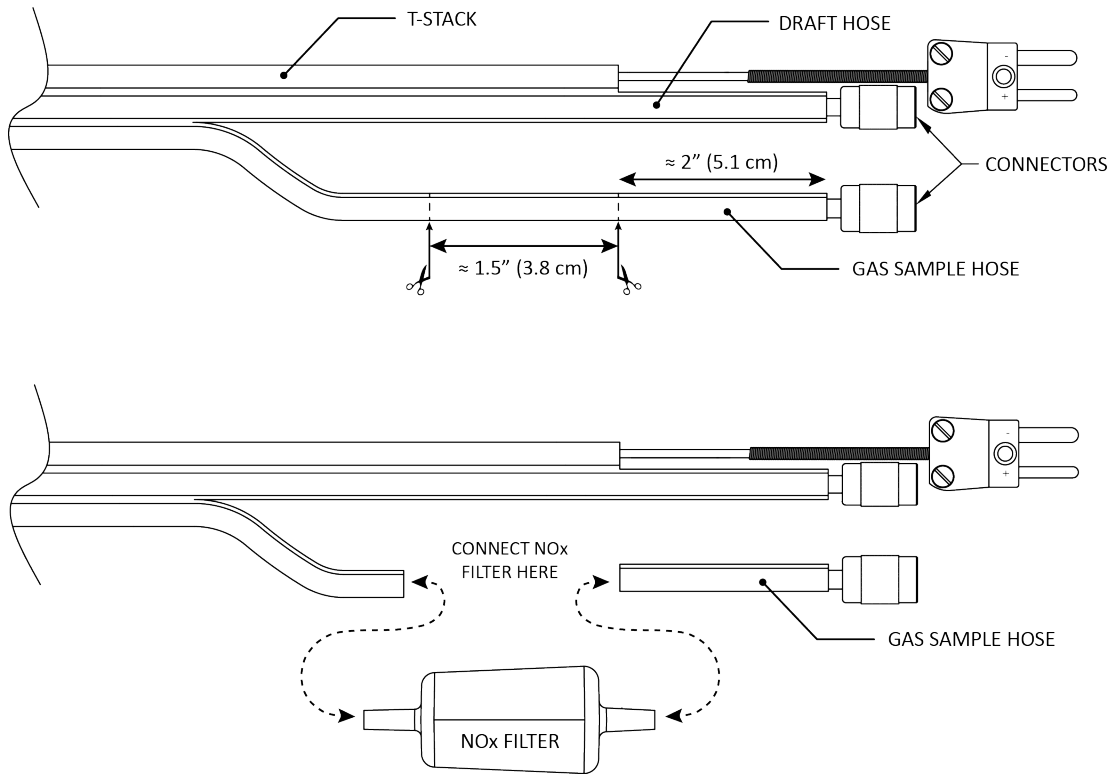


Figure 1. NOx Filter Placement Example 1 – Gas Sample Hose with Integrated Draft and T-Stack Hoses

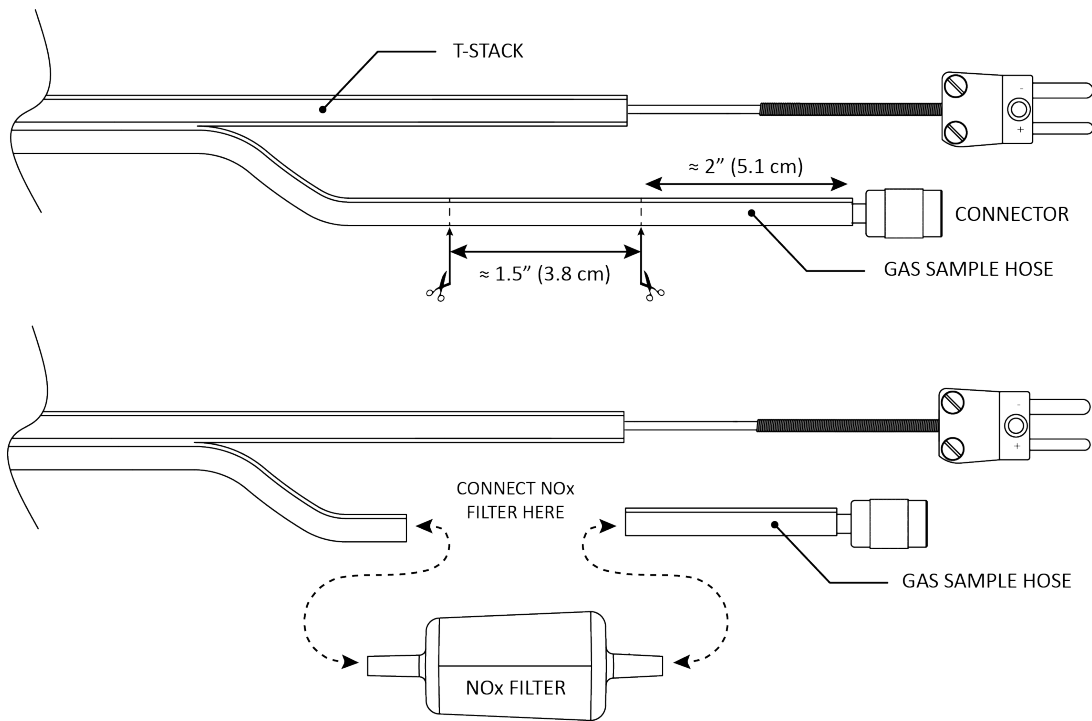


Figure 2. NOx Filter Placement Example 2 – Gas Sample Hose with Integrated T-Stack Hose

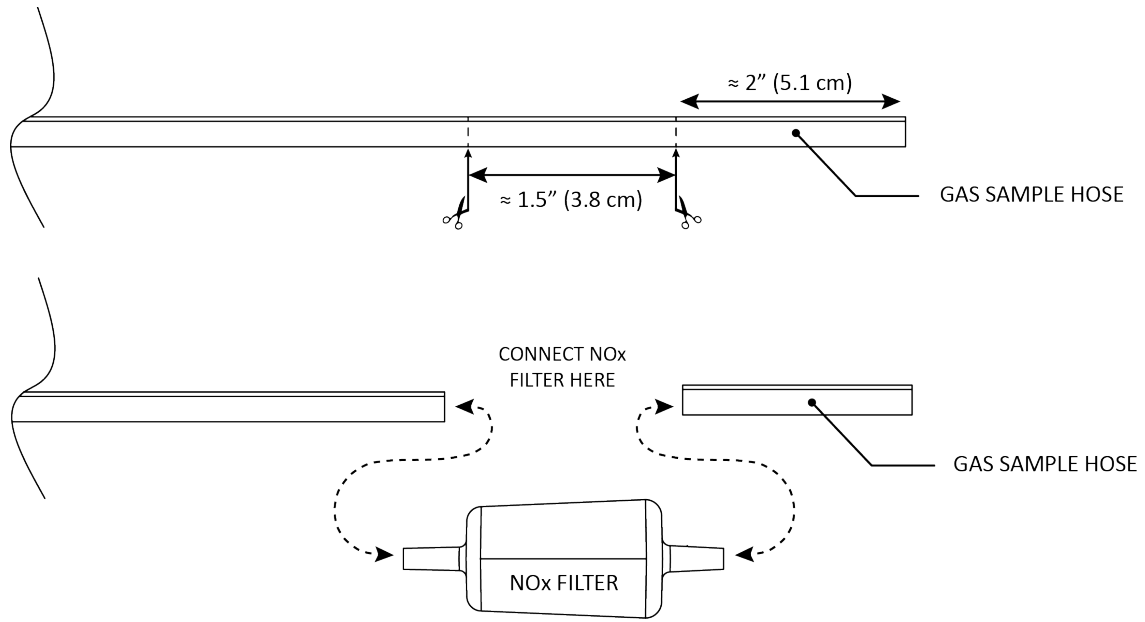


Figure 3. NOx Filter Placement Example 3 – Basic Gas Sample Hose

4. Replacement Parts

- Replacement Filter P/N 0024-1505
- Replacement Hose and Fitting P/N 0024-1506





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