

FOR TRI-TECH MODEL NUMBERS:

F3904 Nitrous Oxide

F3916 Medical Air

F3922 Medical Vacuum

F3924A Oxygen

**Chemetron/NCG 3/4" Outlet**

148 Series  
400 Series  
460 Series

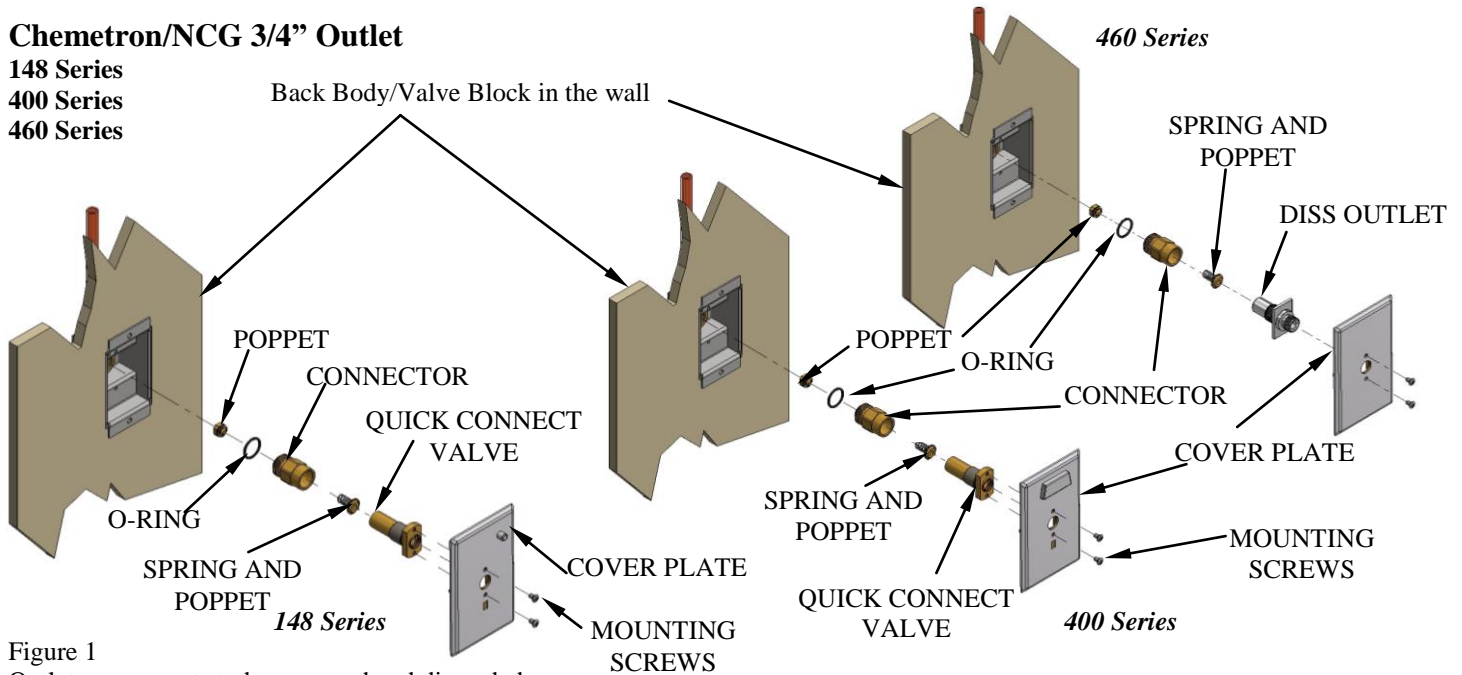
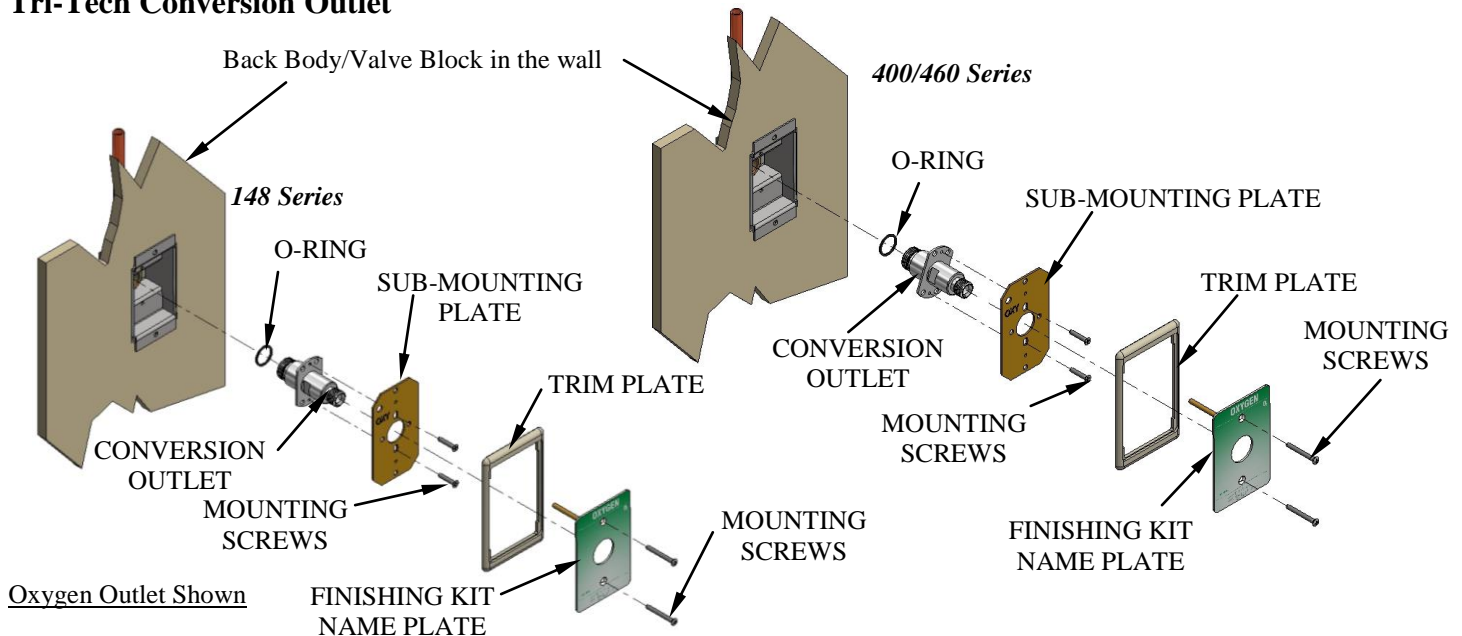


Figure 1  
Outlet components to be removed and discarded

**Tri-Tech Conversion Outlet**



Oxygen Outlet Shown

Figure 2  
Installation of the Conversion Outlet Components

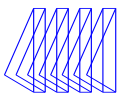
**Tools Needed**

1- Phillips Screwdriver  
Drill with 3/16" Drill Bit

3/4" Hex Wrench  
5/8" or 7/8" Hex Wrench


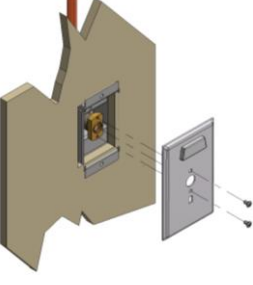
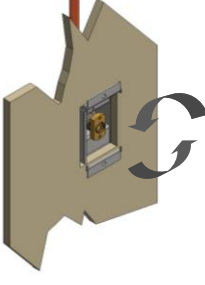
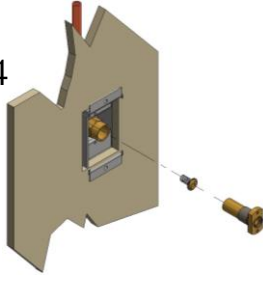

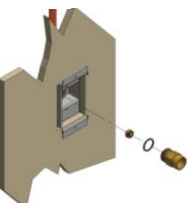

Loctite® (Supplied with Conversion Kit)

Refer to reverse side for detailed instructions

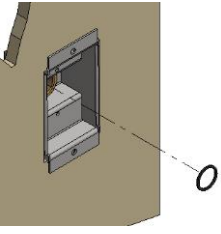
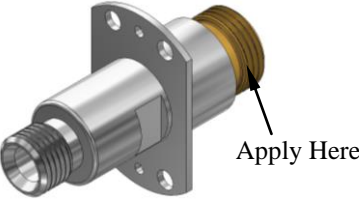
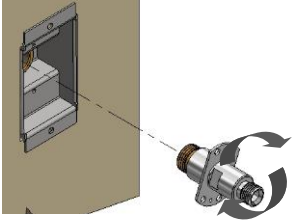
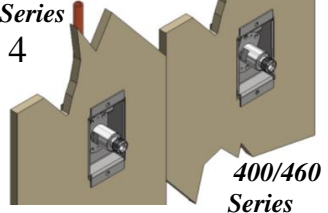
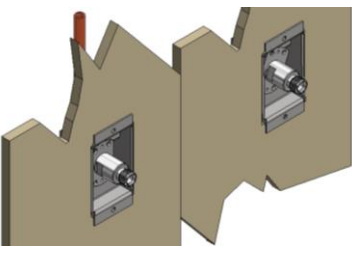
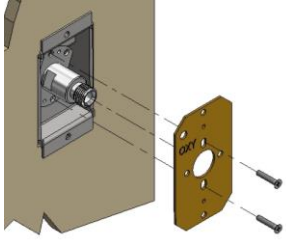
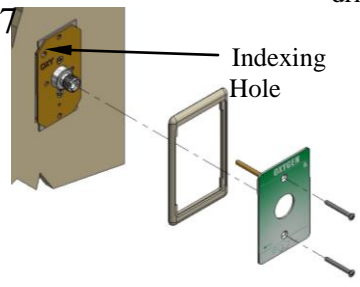
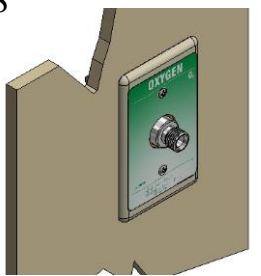


**Chemetron / NCG 3/4" Outlet (148, 400 and 460 Series) Disassembly**

*Close the area zone valve. Warning:* Do not close zone valve until all personnel have been advised of the intended service and all systems requiring medical gas are being supplied from portable or alternate supplies. Bleed the residual gas pressure from the outlet.

- 1  Remove mating equipment from the outlet.
- 2  Remove mounting screws and the cover plate.
- 3  Using a 5/8" or 7/8" hex wrench, turn the valve counter-clockwise to unscrew from the valve block.
- 4  Remove the valve and the spring and poppet.
- 5  Using a 3/4" hex wrench, turn the connector counter-clockwise to unscrew from the valve block.
- 6  Remove the connector, O-ring, and the poppet from the valve block.
- 7  Clean all loose chips and debris from the valve block.

**Tri-Tech Conversion Outlet Installation Instructions**

- 1  Insert the Teflon® O-ring in the valve block cavity.
- 2  Apply Loctite® adhesive to male threads on outlet. Apply 4 drops approximately 90° apart **DO NOT** apply to first thread.
- 3  Position outlet against the valve block cavity and turn clockwise to tighten into the valve block.
- 4  **148 Series**  
4 Line up appropriate mounting holes for conversion as shown: For 148 – Use threaded holes. For 400-460 – Use either set of drilled holes.
- 5  Test outlet in accordance with NFPA Pamphlet 99.
- 6  Align sub-mounting plate so that the gas name can be read from the front. Attach with mounting screws.
- 7  **For 400/460 Series Conversion Only**  
Using indexing hole having gas designation stamp adjacent to it as a guide, drill a 3/16" hole through the existing back plate. Align the name plate so that the indexing pin slides through the sub-plate. Attach with the mounting screws.
- 8  Conversion complete. Attach mating equipment.