

To perform this procedure you will need a TDF31 Supply Manifold. If the tubing attached to the Supply Manifold appears discolored or damaged, it should be replaced as well. This can be ordered as part TDF77 Silicone tubing, 3/16" x 1/16" and TDF78 Silicone tubing, 1/4" x 1/8".

1. Disconnect the 10 silicone tubes attached to the TDF31 Supply Manifold. Six of these tubes go from the upper level of fittings on the manifold to the barbed fitting on the vertical gusset panel. Three of these tubes come from the enzyme pinch valve and one larger diameter tube is attached at the bottom where all the supply lines feed from. See RED arrows.
2. Remove the existing Manifold from the bracket. Use the 3/32" Allen Wrench to unscrew the two screws on the Supply Manifold bracket, as marked by BLUE arrows.

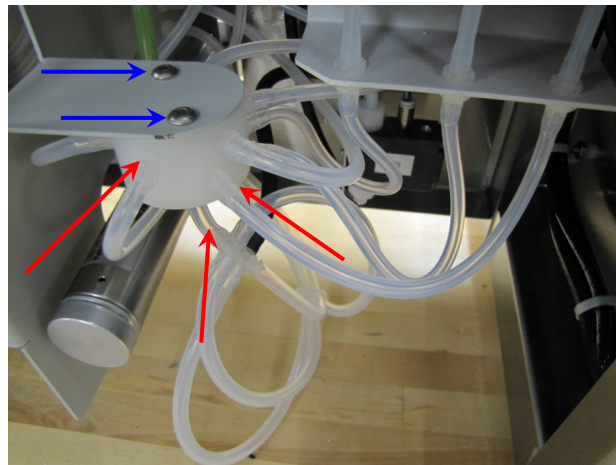


Figure 1

3. Reattach the new TDF31 Supply Manifold with the two screws using a 3/32" Allen Wrench as marked with the BLUE arrows in Figure 1.
4. Reattach the 8.5" Silicone tubing, (3/16" x 1/16", TDF77) to the six positions around the top level of the Supply Manifold - see Figure 2. Also see Figure 5 on the next page. *Be careful not to gouge the edge of the tube when installing the tubing onto the barb fitting.* When doing this feed the position 1 and 2 tubes behind the green air line for a better fit.
5. Note the location that each of the tubes originates from at the vertical gusset panel in Figure 3.

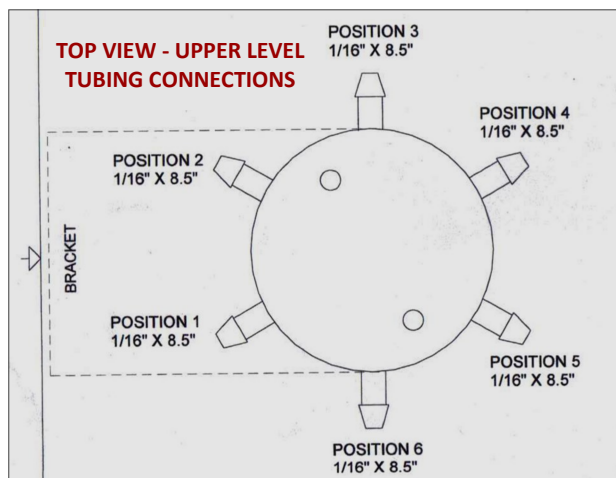


Figure 2

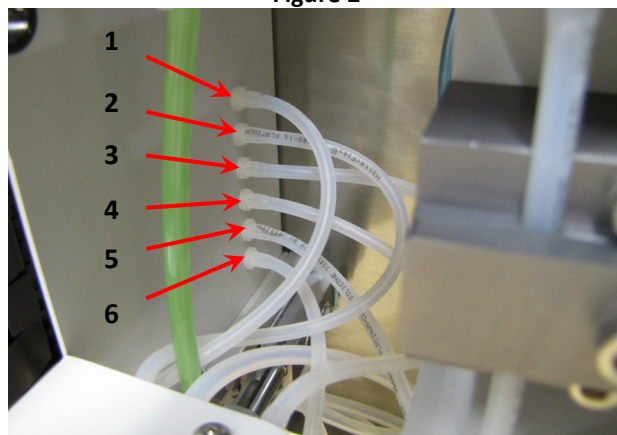


Figure 3

6. Connect the three silicone enzyme tubes (6" length, 3/16" x 1/16", TDF77) from the lower level positions on the Manifold to the correct location on the Enzyme Valve bracket in Figure 4 and **BLUE** arrows in Figure 5.

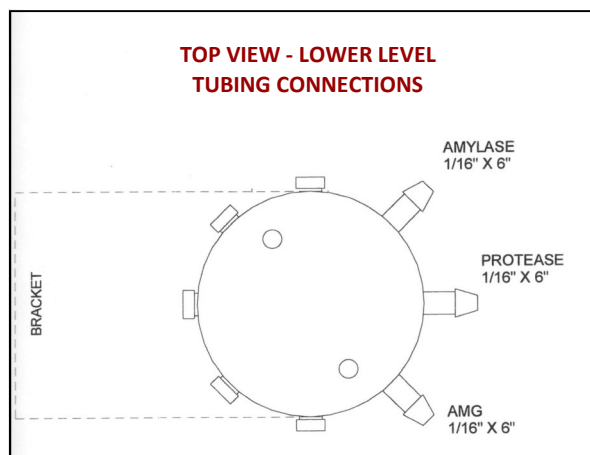


Figure 4

7. Reconnect the larger diameter silicone tube (1.5" length, 1/4" x 1/8", TDF78) that all the supply tubes connect into, to the bottom barbed fitting on the Supply manifold—see **GREEN** arrow. Your Supply Manifold installation is now complete and the TDF instrument is ready to be returned to service.

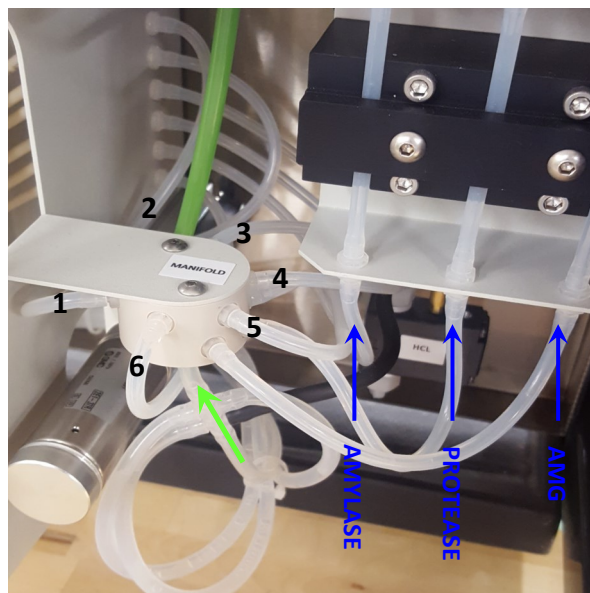


Figure 5