

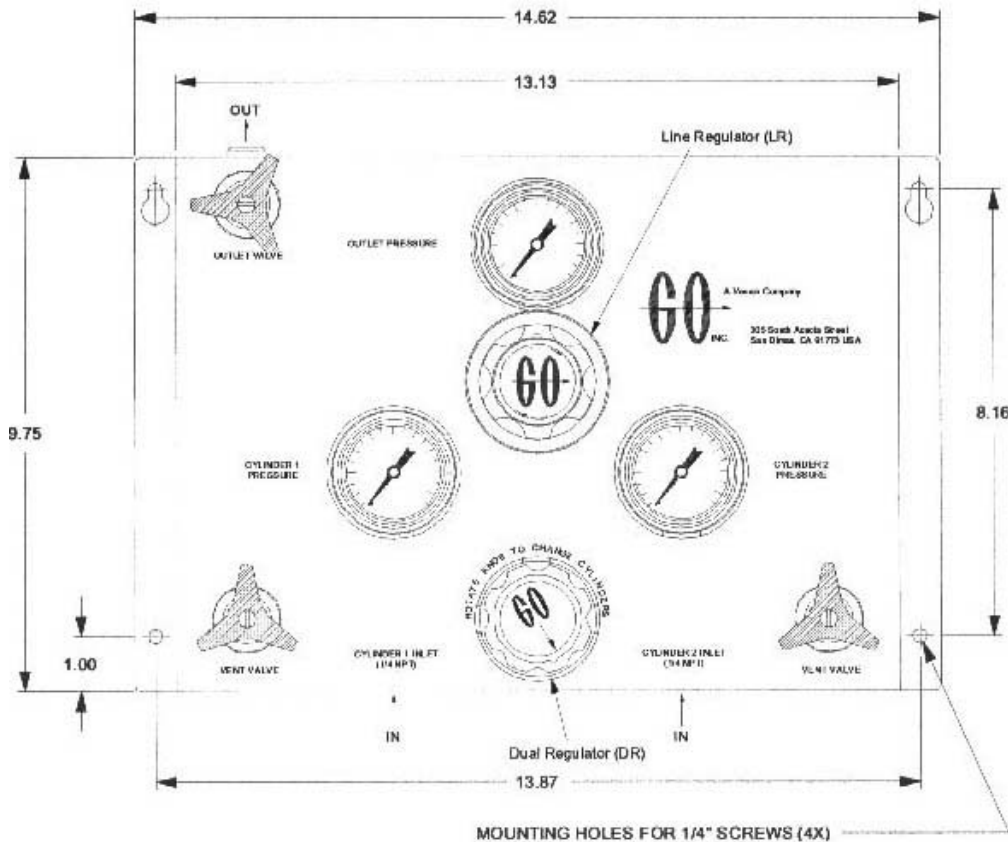
## COM-2P Cross Over Manifold Adjustment Instructions

Doc. # 106763

G97-00626  
Rev. A

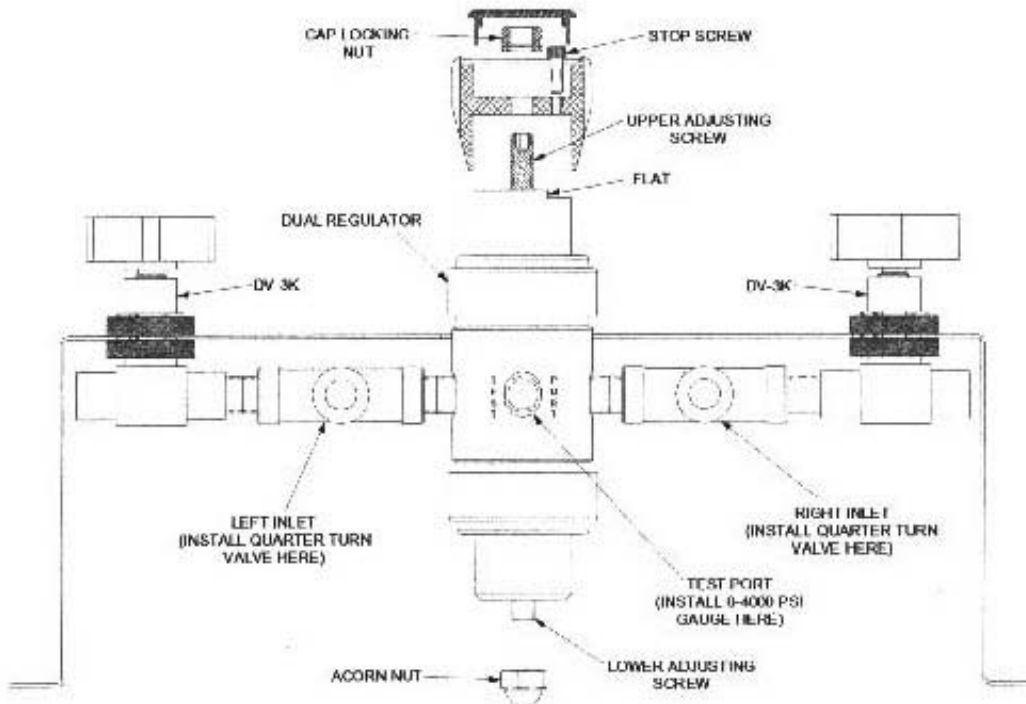
### COM-2P REGULATOR ADJUSTMENT INSTRUCTIONS

The Cross Over Manifold (COM) assembly has the change over pressure preset at the factory for optimal performance. While these settings will suffice for the majority of our users, some customers may want to further optimize these settings. The standard cross over pressure of the dual regulator is 100 psi greater than the maximum rated outlet pressure of the line regulator. Once the COM assembly has been installed, and the actual outlet pressure and flow rates of the line regulator have been established, further refinement of the cross over pressure is possible. This further refinement will enable you to maximize your gas consumption by further depleting the bottles before change over occurs. However, the dual regulator should never be set to less than 30 psi higher than the actual outlet pressure of the line regulator under flowing conditions.



**CAUTION: MAKE SURE THAT ALL PRESSURE IS SHUT OFF AND RELIEVED FROM COM ASSEMBLY BEFORE ATTEMPTING TO ADJUST THE FEED PRESSURE.**

Remove the plug and install a 0-500 psig gauge into the test port of the dual regulator (DR). Install two quarter turn valves to the inlets of the assembly. Two separate pressure supplies, of at least 3000 psig each, should be connected to the quarter turn valves. Make sure that the adjusting screws on the line regulator (LR) and the DR are backed all of the way out and the quarter turn valves are in the open position. Make sure that all of the DV-3Ks are in the fully closed position.



Slowly apply pressure to the inlets. Continue applying pressure until both supplies are at 3000 psig. Using a 5/32 Allen wrench, slowly turn the lower adjusting screw on the DR. Continue turning until the test port gauge indicates a pressure that is nominally 100 psi greater than the maximum rated outlet pressure of the LR, or a pressure that is at least 30 psi greater than the actual outlet pressure of the LR. Install the acorn nut over the adjusting screw and completely tighten. Slowly turn the upper adjusting screw on the DR until the test port gauge shows an increase in pressure between 1% and 2% of its reading. Remove the Allen wrench and spin the DR knob all of the way down the adjusting screw until it bottoms out on the regulator cap. Turn the knob in the opposite direction 4 full turns. After the knob has been turned four full revolutions, continue turning it in the same direction until the threaded hole for the stop screw lines up with the middle of the flat on the cap. Spin the cap locking nut down by hand and firmly lock it against the knob. Install the stop screw into the threaded hole and tighten.

**CAUTION: MAKE SURE THAT ALL PRESSURE IS SHUT OFF AND RELIEVED FROM COM ASSEMBLY BEFORE CONTINUING.**

Remove the test gauge and reinstall the plug, tightening firmly. Open inlet pressure again and check for leaks with a suitable leak detecting fluid. Reinstall snap cap making sure arrow is correctly oriented.

## **GO Regulator**

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