

VaporWorx

We Give You Gas

Instructions for modifying the CTS-V fuel module for use with corner pickups.

The Cadillac CTS-V fuel module uses a venturi pump connector in the stock application to draw fuel from a remote fuel tank. VaporWorx takes advantage of this design to attach corner pickups, hence allowing for very effective fuel delivery even at low fuel levels. However, the attachment point on the module must be modified to properly fit the fuel transfer hoses.

In Photo 1 the basic parts are shown that are needed for the modification.

- 1) Odiker clamp P/N 16700010 0.421" – 0.531" diameter
- 2) 1-1/2" long piece of 5/16" tubing.



Photo 1. The uncut venturi pump pickup tube is shown along with the 5/16" tube and Odiker clamp.

Step 1. Cut the end of the venturi pump connector $\frac{1}{2}$ " from the larger upset in the tube. The upset is used in the stock application to lock the stock connector in place, the same way a GM quick-connect is done. A Dremel tool with a thin cut-off wheel works well for this process.

Step 2. Drill a $\frac{21}{64}$ " hole through the center of the venturi pickup. Do not drill through the back wall. Only an inch depth total is needed.

Step 3. Cut an axial slot in one place on the venturi pickup tube extending from the end of the venturi pickup tube to the tube upset shoulder. The end of the tube should look like that in Photo 2.



Photo 2. The venturi pump pickup tube has been cut radially and axially. The tube has also been drilled to $21/64$ " to a depth of 1". The tube bore can also be chamfered.

Step 4. Insert the $5/16$ " tube into the venturi pickup tube bore so that approximately $1/2$ " of the tube is exposed. Install the Odiker clamp over the venturi pickup tube and secure it into place. The corner pickup fuel transfer tube will connect to the exposed $1/2$ " length of the $5/16$ " tube. The completed assembly should look like that in Photo 3.

