

This document describes the installation of an Airflow Systems 2007X on the standard oil cooler air box supplied with the RV-10. This allows a larger, high performance oil cooler to be installed without major revisions to the oil cooler installation. This may be accomplished before or after the aircraft is flying.

Verify Airflow Systems' air box internal turning vane is installed prior to installing oil cooler.



Figure 1: Shows the 2007X in position on the stock air box. Note the 2007X mounting flange extends above the stock air-box

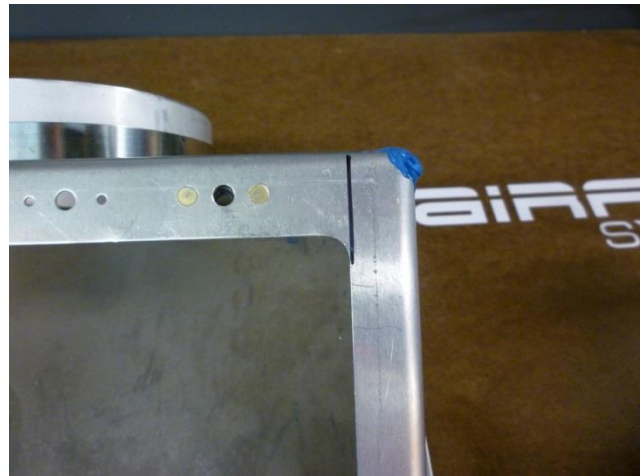


Figure 2: Shows marking the box to remove only the upper mounting lip.



Figure 3: Shows a hole drilled in the corner and the flange of the stock box being cut away.

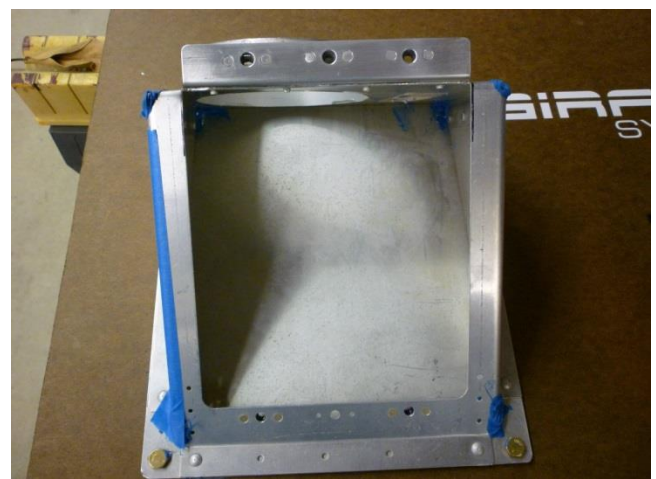


Figure 4: Shows the original top mounting lip removed and the new mounting flange, with nut plates installed, riveted to the top of the original air box.



Figure 5: Shows the lower, forward, outboard corner of the oil cooler modified to clear the engine mount tube. Use only tin snips to make this cut

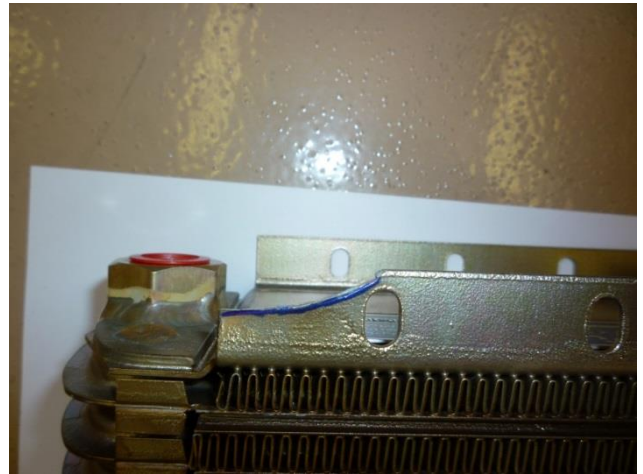


Figure 6: shows the modification to the forward, upper, inboard corner of the oil cooler to clear the engine mount tube. Again, use only tin snips to make this modification.



Figure 7: Shows the 2007X oil cooler with clearance to the engine mounting tubes

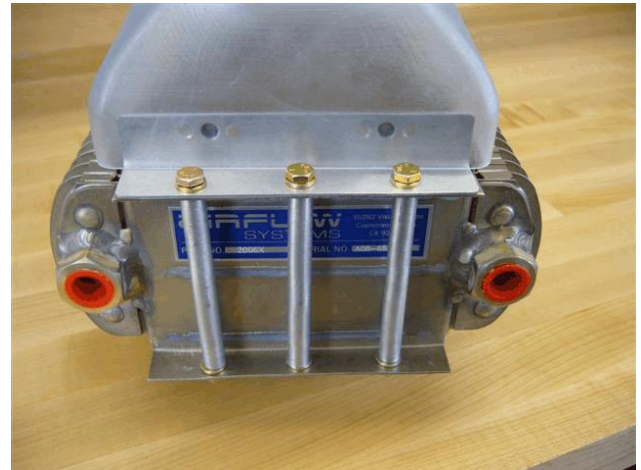


Figure 8: Shows the mounting bolts properly installed with compression tubes