

Take the cabin heat muff and slide it into rough position on the muffler between the manifold heat shield and the muffler. Zenith builders keep in mind that the 2.25 inch hose flange needs to be on the left side of the airplane. Other installations with 2" flanges on each end are reversible. Mark the position of the exhaust manifold pipes where they contact the heat muff flange. Remove the muff



from the muffler.

With shears or hole saw, cut semi circles out of the muff flange where it contacts the manifold pipes.

Trial fit the muff back in place and take note of the angle of the flanges. Remove the muff and adjust the angle of the flanges to match the curve of the muffler as closely as possible. Use a hand seamer for this job.



Slide the muff back in place on the muffler and check for clearance between the manifold heat shield and the muff and the exhaust manifold pipes and the muff. Adjust further if necessary by bending the flanges or notching around the pipes.

Fasten the muff to the muffler using the 6" SS Band Clamps provided with the cabin heat kit. Locate and cut slots in the sides of the muff where the clamps can slide over the muff flange and through the interior.



A carbon monoxide monitor for the cockpit is recommended as exhaust gases may enter cockpit if cracks form in the exhaust system.



Position the cabin heat mixer box on the firewall in a location where it will not interfere with airbox, throttle cables, battery box, or oil recovery system. Zenith CH601 builders should place the box on the right side of the firewall, taking care not to get too close to the center nose leg channel as to interfere with the throttle cables coming thru



the firewall.. This photo shows a Jabiru J series where the box is on the left. Final position is left to the kit builder. Place the stainless steel side of the box through a 2" hole drilled through the firewall.

Mount the cabin heat cable into the instrument panel and run the cable to the box. Be sure to set up the cable so that when pulling the cable, the door closing off the firewall opening will open. Fabricate a cable bracket from scrap aluminum and locate near the heat box. Insert a cable end adjuster into the bracket and run the cable through the adjuster to the heat box arm. Attach the cable to the heat box arm with the brass fitting and solder in place as per the carb heat / choke cable directions.

Mark the NACA inlet opening on the cowl in a location where it will be easy to run the SCAT duct inside the cowl from inlet to muff. Cut out the opening and bond the NACA inlet into the cowl with any good 5 minute epoxy.

Cut the SCAT ducting to length to connect NACA inlet to heat muff.. Zenith builders will use 2.25 inch SCAT from NACA inlet to muff. Other kits will use 2" only. Attach SCAT to inlet and muff with the 2" clamps provided.

Measure SCAT to length to go from heat muff to mixer box. Cut and install with 2" clamps. Cut a piece of SCAT to length to run from mixer box outlet to the bottom cowl opening. Secure to box with 2" clamps. Secure lower end with cable ties or adell clamps.

**Important—Air must flow through the muff at all times to minimize heat build up. Do not disconnect muff from NACA inlet and allow the muff and muffler to overheat.**

