

Skymaster F9F Cougar Fuel System A.D.

The Skymaster F9F Cougar fuel tanks are connected in “series”. This is necessary because the two main tanks are of unequal volume. Fuel must be drawn by fuel pump suction from the tank farthest upstream to replenish the downstream tanks.

Any restriction in the system connections, or in long tubing lengths can make fuel delivery difficult.

After many flight on the Cougar, we have found the plastic header tank to be somewhat restrictive, and unnecessary. Removal of the header tank has proven to provide stronger fuel delivery and adds reliability to the fuel system.

- De-fuel the model. Remove the header tank and the laser cut header tank support. Cut the 6 mm fuel hoses flush with the header tank brass tubes. Save the plastic header tank for a future project.

- Re-route the feed hose from the lower main tank and connect it to the UAT inlet fitting. (The same fitting that was formerly attached to the plastic header tank feed (clunk) hose). Make sure there are no kinks in any of the 6 mm hoses. Safety wire this new connection.

There is no change in the center of gravity, as the plastic header tank was located on the C of G. Flight time reduction is negligible, as the Cougar has a large fuel capacity. We set the flight timer at 9 minutes.