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SERVICE BULLETIN

SB048-0399

Subject: Lancair Crossover Tubes (IV, IV-P, New Fast Build only)

Date: 1 March, 99

Ref: Construction Manual, Attached pages

Pages: 1

Status: Mandatory change

Background: There is a possibility of too much fuel draining out of the inboard bays in the wing during maneuvering while the slosh doors are closed. This can lead to momentary loss of fuel to the engine.

Action: If you have not closed out your wings:

Using the template provided, cut two ribs from 1/8" divinicell or equivalent. Cover the rib with a 1 bid on each side. Install the rib in the forward fuel bay at BL 38 with a micro radius and a 2 BID on each side. Perform a flox release on the rib so it matches the bottom wing skin. This rib is not structural. It's intent is simply to create a baffle to slow the fuel draining process.

If you have already closed out your wings:

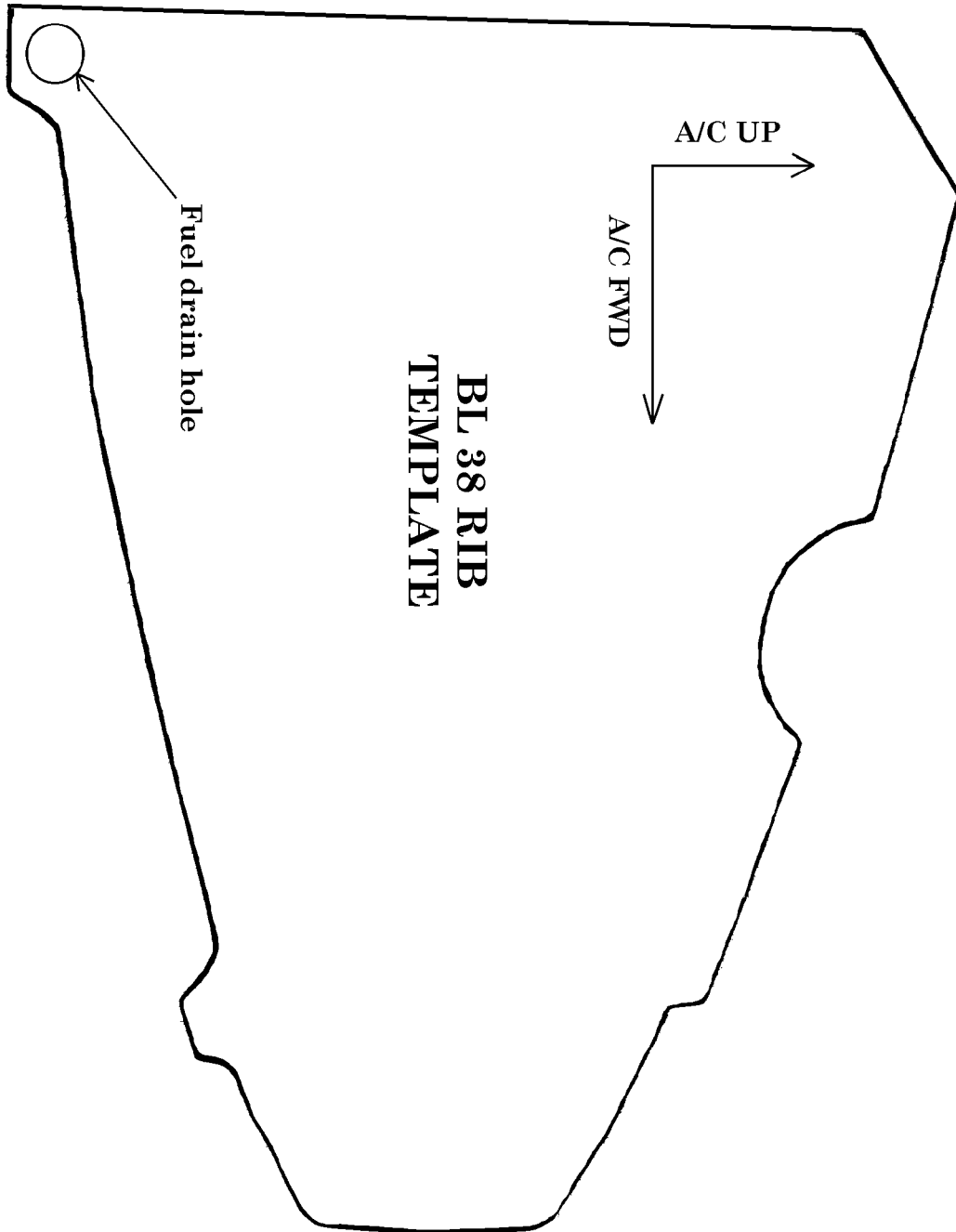
Drain the fuel from the wings (if necessary) and remove them from the fuselage. Cut a small access hole in the forward inboard rib. Make sure the fuel crossover tube is dry. Prep the plug (P/N SB048, call inventory to have the plug sent to you) and the end of the crossover tube with 40 grit (a small piece of sandpaper glued to the end of a tongue depressor will be sufficient). Carefully clean up all debris. Mix up a small batch of Hysol and use 3/16" cleco clamped into the small plug hole to hold it with cleco pliers while you place it into the end of the crossover tube. Be sure no Hysol gets into the small hole in the plug. Remove the cleco after the Hysol cures.

Measure the access hole you cut into your fuel tank and lay up a 6 BID patch so that it will overlap the rib about 1", and let it cure on the table. Prep the patch with 40 grit and MC. Apply two coats of fuel tank sealer to one side of the 6 BID patch. Let the first coat setup before applying the second coat. Once cured, prep the edges of the patch with 40 grit and MC, making sure to remove all the excess tank sealer. Mix up a small batch of Hysol and bond the patch into position on the outside of the rib. Let cure.

The purpose for this plug is to restrict the flow of fuel from the inboard fuel bay.

Rib Template

Figure 1.



Note: If you have already closed out your wings, you do not need to install the BL-38 rib.