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**SERVICE BULLETIN**

**SB027-0196**

Subject: Lancair IVP main gear box reinforcement  
Date: January 17<sup>th</sup>, 1996  
Ref: None  
Pages: 3  
Status: Mandatory Inspection

**Background:**

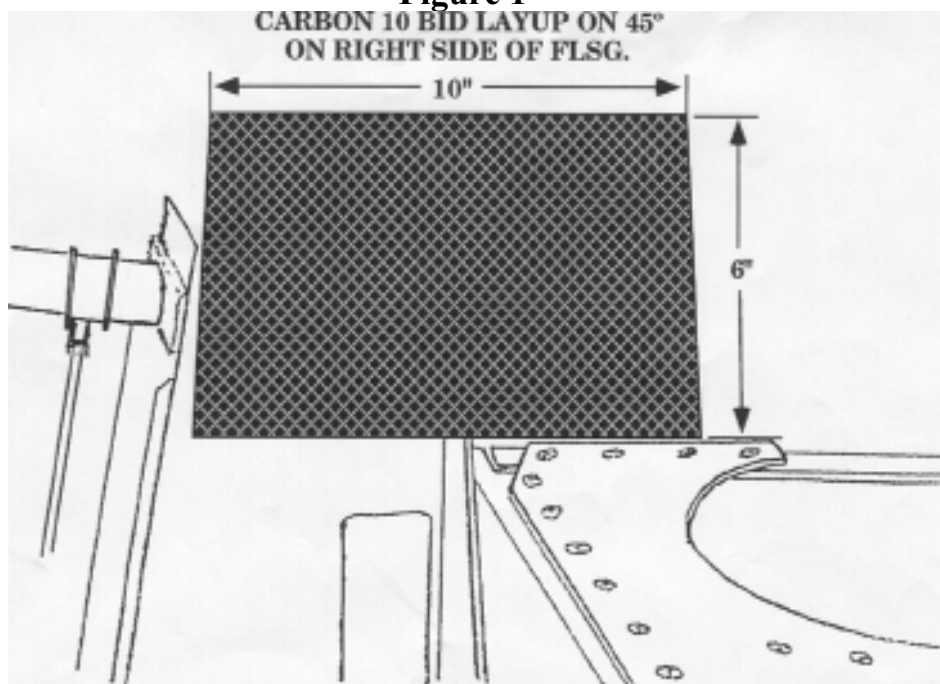
During an inspection of a customer's Lancair IVP during a pressurization test, it was discovered that the 24 BID in the area just above the gear box on the forward right side had debonded. The 24 BID distributes the load of the machine screws securing the GM461-002 bracket and also serves as a stiffener. None of the other IVP's (including the company prototype) have shown similar signs of debonding. However, the following modification is recommended as a precautionary measure.

**Note:** This change is only considered mandatory for the earlier fuselages without the factory pre-installed 20 BID prepreg reinforcement (Ref. Page. 19 -51).

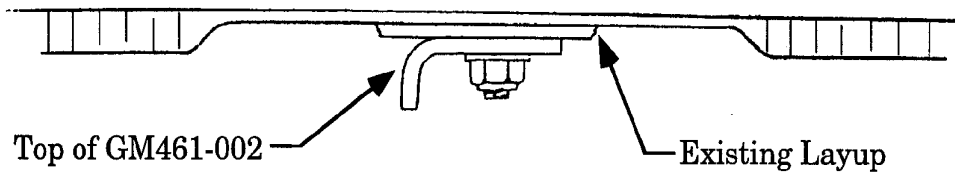
**Action:**

Refer to the illustrations on the next two pages.

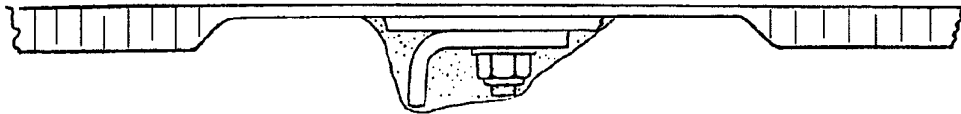
**Figure 1**



**Figure 2**  
**SECTION OF FUSELAGE SIDE**

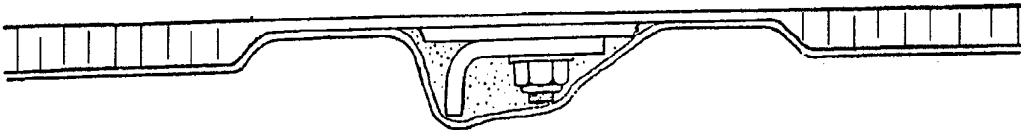


**1. MICRO BUILD UP AROUND BRACKET BOLTS**

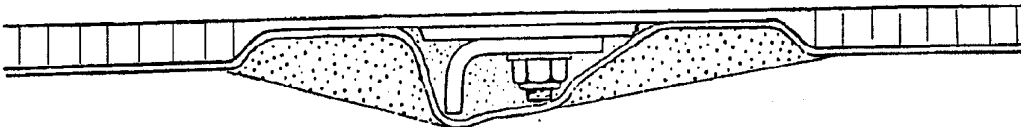


Use just enough micro to allow the carbon to lay down nicely when it is applied.

**2. INSTALL 5 BID OF CARBON ON THE 45°**



**3. USE MICRO AS CORE MATERIAL TO FILL ALL THE WAY TO THE EXISTING CORE. YOU MIGHT WANT TO DO THIS IN 2 STEPS.**



Do in 2 steps to keep the micro from going into a exothermic reation.

**4. INSTALL ANOTHER 5 BID OF CARBON AT 45°**

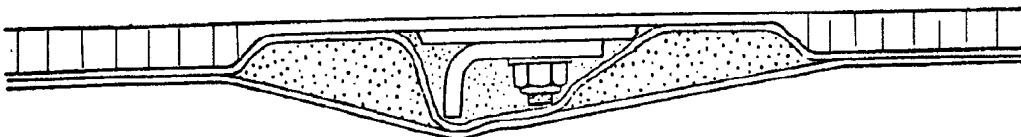


Figure 3

